



Algacoper

GENERAL CONTRACTOR

License No. #031999

SUBMITTAL NUMBER 3

March 8, 1993

Mr. John A. Kretzmann, P.E. Project Engineer Mining and Minerals Division 2040 South Pacheco Street Santa Fe, New Mexico 87505-5472

RE: Grants Uranium Phase II, EMNRD-MMD-92-5 Wyo-Ben Bentonite Submittal

Dear Sir:

As I have previously indicated to you, we intend to order the Bentonite in one large bag that we will handle with the loader at each of the following Barbara J sites:

Barbara J #1 - Assuming the shaft is 4 x 9.5 x 1 = 38 cu.ft. per 1 ft. of depth; therefore, 38 x 2½ ft. thick = 95 cu.ft. of Bentonite to create a plug 2½ feet thick. 95 cu.ft. x 68 lbs./cu.ft. (see Spec sheet) = 6460 lbs. = 1 large bag.

Barbara J #2 - Assuming the shaft is 5 x 9 x 1 = 45 cu.ft. per 1 ft. of depth; therefore, 45 x 2½ ft. thick = 112.50 cu.ft. of Bentonite to create a plug 2½ ft.

thick. 112.50 cu.ft. x 68 lbs./cu.ft. (see Spec sheet) = 7650 lbs. = 1 large bag. Barbara J #3 - Assuming a 7' diameter shaft = 38.486 sq.ft. x 1 = 38.485 cu.ft. per 1 ft. of depth; therefore, $38.485 \times 2\frac{1}{2}$ ft. thick = 96.21 cu.ft. Use 97 x

Barbara J #3a - Assuming a 30 inch diameter shaft = 5.1116 sq.ft. x 1 = 5.1116 cu.ft. per 1 ft. of depth; therefore, 5.1116 x 2½ ft. thick = 12.78 cu.ft. Use 13 x 68 lbs./cu.ft. (see Spec sheet) = 884 lbs. = 35 single bags.

The truck can haul up to 20 tons of Bentonite and shipping cartons from the mill per load so we intend to use all or part of one load. The total weight of the above mentioned Bentonite equals approximately 21,590 lbs. plus shipping bags.

I have attached a sheet from the Bentonite firm giving gallons per linear foot of bore hole which is .65 gals. per lin. ft. = 4" hole. Using Figure 14 in the Specifications, I have arrived at the following equations:

Assuming all bore holes in Poison Canyon average 8" in diameter, which appears excessive, then a 8-3/8" hole requires approximately 3.04 gals. per 1 lin.ft., or ½ bag; therefore, I feel that 1 bag average per hole should be ample. Note that a 4" hole requires about .65 gallons per foot or 1/9 of a bag by volume. With 250 holes in Poison Canyon, that would be 250 bags x 68 lbs./bag = 17,000 lbs.

**The high, upper 150 holes (smu most holes small) support 40 to 60 bankers)

To recap the above figures, we estimate the following:

68 lbs./cu.ft. (see Spec sheet) = 6596 lbs: = 1 large bag.

Barbara J #1, 2, 3, 3a = 21,590 lbs. Poison Canyon, 250 holes = 17,000 lbs. 38,590 lbs. 7 2720-4080# 7 55 -826090-@ 50#/bag

13816 Winterwood Way SE • Albuquerque, New Mexico 87123 • (505) 299-1000 • Mobile 1-264-1700



GENERAL CONTRACTOR

License No. #031999

March 8, 1993

TO: J.A. Kretzmann, Mining & Minerals Division RE: EMNRD-MMD-92-5, Submittal Number 3

Page 2

We will, therefore, order this on one truck and, with your approval, this will complete the Bentonite order and shipment.

Should you want this order changed, please advise us as soon as possible.

Thank you for your attention to this matter.

Sincerely,

Khani Company

JHW: rw

13816 Winterwood Way SE • Albuquerque, New Mexico 87123 • (505) 299-1000 • Mobile 1-264-1700



PRODUCT INFORMATION

KWIK-PLUG COARSE Sealing and Plugging Agent



Description

Principal Uses

Advantages

Treatment

Physical **Characteristics** KWIK-PLUG COARSE is a high swelling, chemically unaltered bentonite for use in hole abandonment, sealing casing, plugging flowing holes, and isolating aquifers.

Water Wells, Minerals Exploration, Monitor/Observation Wells, Disposal/Injection Wells, Blast Holes, Soils and Foundation Sealing.

- *Gives high concentration of solids for hole abandonment and casing seals.
- *More effective seal than cement.
- *When contacted by water, forms a flexible semi-solid gel-like mass.
- *Falls through standing water.
- *More resistant to bridging than bentonite tablets.
- *Expansion fills into formation voids limiting water movement up and down the hole.
- *Prevents surface water from following bore hole down to subsurface water supplies.
- *Adds no contaminants in monitor well applications.

Sealing Casings:

Slowly pour into annulus and allow to drop to gravel pack. To avoid bridging problems pour at a rate of 1 1/2 to 2 minutes per bag.

Hole Abandonment:

Slowly pour into hole. Take 1 1/2 to 2 minutes per bag. Fill hole to within 3-5 feet of surface and apply cement plug or fill with native soil as regulations dictate.

Seismic Shot Holes:

Slowly pour 1 1/2 to 2 minutes per bag. In wet hole conditions add enough to fill up to the static water level. In a dry hole, add 2 to 4 bags directly over charge. Where water is injected, pour 2 bags per 50 feet of hole depth.

Bulk Density Moisture Content 68 lb./cu. ft.

16% ± 2

Sizing

-3/8" - 3/4" V



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Bulk Density

68 lb./cu. ft.

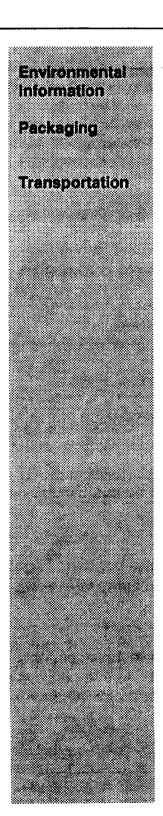
Moisture Content

16% ± 2

Sizina

3/8" - 3/4"

KWIK-PLUG COARSE Sealing and Plugging Agent



KWIK-PLUG COARSE contains no contaminants, is non-toxic and does not ferment or spoil. Avoid creating dusty conditions.

KWIK-PLUG COARSE is available in multiwall, water resistant 50 lb. (22.7 kg) paper bags.

Proper Shipping Name - Not regulated Hazard Class - Not Hazardous Hazardous Substance - None

Dry Fineness:

Moisture Content: Processed Bulk Density:

pH:

Specific Gravity:

Slurry Solids Content:

MATERIAL SPECIFICATIO

80% minimum passing a 200 mesh screen.

5.9%

58.0 ± 4 pounds/cubic foot

5% slurry, 8 to 10.5

10.2 pounds/gallon, when prepared according to specifications.

30%, when prepared according to specifications.

TO

	E.P. TOXICIT	Y
		Typical Analysis for
	Siandard (ppm)	Set Grout (ppm)
Arsenic	5.0	<0.1
Barium	100.0	0.5
Cadmium	1.0	< 0.05
Chromium	5.0	<0.1
Lead	5.0	<0.1
Mercury	0.2	< 0.02
Selenium	1.0	< 0.05
Silver	5.0	<0.1

ENVIROPUS GROUT has been tested by an EPA certified laboratory which issued results below detection limits on 100 volatile and semi-volatile organic pollutants.

TYPICAL CHEMICA (Major Con	
	Dry Weight %
SiO ₂	63.54
Al ₂ O ₃	19.28
Fe _z O _z	3. 48
TiO,	0.22
CaO	0.38
Na _z O	2.34
MgO	1.67
K ₂ O	0.10
MnO	0.02
H ₂ O	4.50
L.O.L.*	4.37
*Loss on Ignition	•

HOLE AND ANNULAR CAPACITY

Bok	Halo	Hale Cap	T				ANNU	LAE CAPAC	TY (Goffees	Per Feet)				
Die.	Сер	(Ca.PL	Carriers • C	aring - Outside Dimension										
(<u></u>)	(GPF)	PL.)	3%	3%	4%	5%	7%	7%	J PK	- 73	10%	12%	13%	16
3%	.58	.077	_52	}			1	1	1			ł	1	
•	-65	.867	.40	-15	I		i	i	1	i		l .	i	l
4%	.92	.123	.67	.42	<u> </u>	<u> </u>	<u> </u>	<u>L. </u>			<u> </u>	<u> </u>		L
8%	1.32	.176	1.06	.82	.40							1		l
5%	1.41	.188	1.15	.91	.50	1	1	ł	ł	1	ì	l	1	i
64	1.50	.213	1.34	1.09	.78	.36	İ				<u> </u>	<u> </u>	<u>l</u>	<u> </u>
64	1.73	.231	1.47	1.22	.90	.49			1			1		
6%	1.06	.249	1.69	1.36	1.03	.63	l		ļ	ļ	ł		ł	· ·
7	2.00	.207	1.74	1.50	1.17	.77_	.21			<u>i</u>		<u> </u>		<u> </u>
7%	2.37	J 17	2.19	1.97	1.55	1.14	,54				1		1	
•	3.61	.349	2.30	2.11	1.79	1.38	.82	l	l	}	l	l	ļ	l
8%	3.04	.405	2.78	2.54	2.21	1.81	1.25	.#						<u> </u>
•	3.31	.442	3.05	2.81	2.46	2.07	1.31	.93		1			l	1
7%	3.70	.506	2.52	3.26	2.55	2.55	1.00	1.41	.75	I	1	i	i	l
10	4.00	.546	3.83	3.5R	3.26	2.66	2.29	1.71	1.84				<u> </u>	
10%	4.61	.016	4.35	4.71	3.79	3.37	2.82	2.23	1.57	.83				
11	4.84	.000	4.00	4.44	4.11	3.70	2.15	2.57	1.90	1.15			1	Ì
12%	6.13	.819	5.87	3.63	5.30	4.89	4.33	3.73	3.00	2.34	1.41	L		
12%	6.63	.887	6.30	6.14	5.81	5.40	4.84	4,26	3.80	2.85	1.92			
13%	7.44	-994	7.18	8.94	. 6.61	6.21	5.66	5.06	1.40	3.65	2.72	.80		l
15	9.18	1.227	4.97	8.66	8.36	7.95	7.39	8.81	6.15	5.40	4.47	2.55	1.46	
15%	9.61	1.311	9.55	9.31	8.96	2.57	0.01	7.43	6.77	6.02	\$.00	3.17	2.50	
17%	12.93	1.729	12.60	12.36	12.03	11.62	11.97	10.49	9.42	9.07	8.14	5.22	5.56	2.41
26	27.99	3.680	27.33	27.60	26.76	25.34	25.00	25.22	24.55	23.81	22.67	20.96	20.29	17.08

When applied as recommended, each 50# package will convert to the following gallonege:

*Generally applied dry.

For details on the application of ENVIROPLUC® products, see individual Product Bulletins



P.O. Box 1979 • Billings, Montana 59103 • (406) 652-6351

TOTAL P.01



92 AUG 11 AM 11: 40

DEPARTMENT OF THE INTERIOR 19 FARMINGTON, N.M.

Permit Number

FUP-NM019-92-12

FORM APPROVED OMB NO. 1004-0001

Expires: October 31, 1990

grants II (1)

Expiration Date 08-07-94

District

Albuquerque-FRA

FREE USE APPLICATION AND PERMIT **VEGETATIVE OR MINERAL MATERIAL**

APPLICATION

UNITED STATES

BUREAU OF LAND MANAGEMENT

Name of applicant Address (include zip code) New Mexico Abandoned Mine Lands 2040 South Pacheco, Santa Fe, NM 87505 Kind of material Fill Estimated quantity 900 cu. yd.

Give legal land description

TOWNSHIP RANGE

SECTION

SUBDIVISION

13N

09W

30

State of New Mexico

County of McKinley

Materials are to be used for Reclamation of Mines

I HEREBY AGREE TO COMPLY WITH the special conditions as set forth below. I CERTIFY That the: (a) materials to be removed are to be used for the purpose noted above; (b) none of the materials removed are to be sold or bartered; (c) removal of materials can begin only upon receipt of an approved copy of this permit, and, (d) the authorized oficer is to be notified upon completion of removal.

I CERTIFY That I am a citizen of the United States, and of the age of majority in the State in which I reside.

I FURTHER CERTIFY That the statements made by me in this application are true, complete, and correct to the best of my knowledge and belief and are made in good faith.

(Date)

(Signa)ure of Applicant)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any departure of the control fiment or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction

PERMIT

SPECIAL CONDITIONS

This permit is hereby issued for the materials applied for but may be canceled if it appears that this permit was issued erroneously or the terms or conditions contained herein are not observed. It shall be subject to the following special conditions:

Information is collected to comply with Statutes (16 U.S.C. 604-606 and agency Regulations (43 CFR 5511.1-1(f)).

Information is used to confirm the residence of the applicant.

Applicant must respond to obtain a permit.

Conservation practices must be carried out as provided by 43 CFR 5511.1-1(b), .2-3(c), and .3-3;

Equipment, personal property, and improvements must be removed within ninety (90) days after expiration date 43 CFR 5511.3-5);

Any use of the surface of the lands involved in this permit shall be such as not to interfere with any mining claim subject to the provisions of Section 4 of the Act of July 23, 1955 (30 U.S.C. 613);

The permittee shall clean up all work areas and shall remove or dispose of all refuse resulting from the permittee's operations;

This permit is issued under the Act of July 31, 1947, as amended, and 43 U.S.C. and 1201, and under the free use privilege of the Act of May 14, 1898 (Alaska only).

An annual report indicating the amount (cu. yds. or tons) of material removed must be filed with the District Office on the anniversary date of the permit, or within thirty (30) days after permit expiration (Alaska only).

(Date)

(Signature of Authorized Officer

APPLICANT



NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 601, 602; 43 U.S.C. 1201; 60 Stat. 367

PRINCIPAL PURPOSE - The information is to be used to process your application for a Free Use Permit. ROUTINE USES:

- (1) The adjudication of the applicants' rights to the land or resources.
- (2) Documentation for public information in support of notations made on land status records for the management, disposal, and use of public lands and resources.
- (3) Transfer to appropriate Federal agencies when concurrence is required prior to granting a right in public lands or resources.
- (4) Transfer to the U.S. Department of Justice in the event of litigation involving the records or the subject matter of the records.
- (5) Transfer, in the event there is indicated a violation or potential violation of a statute, regulation, rule, order or license, whether civil, criminal or regulatory in nature, to the appropriate agency or agencies, whether Federal, State, local or foreign, charged with the responsibility of investigation or prosecuting such violation or charged with enforcing or implementing the statute, rule, regulation, order or license violated or potentially violated.

EFFECT OF NOT PROVIDING INFORMATION - If you do not furnish all the information required by this form, your application may be rejected.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to inform you that:

Information is being collected to obtain vegetal and mineral depletion information relevant to natural resource inventory.

Information will be used for depletion records.

TO SHE TO MENT OF SHEET OF THE

Response to this request is mandatory (43-5510) to fulfill the requirements for the cutting of timber and for oil and gas claimants.

Access ID No. 17960 US-NAUM0167530

Name of	Contra	ctor: _	Khani Constru	ction		IFB	#: <u>00-521</u>	06-03176
Project	Name:	Grants	Uranium Phase	2 Mine Sa	feguard F	Project		
			Ford 2 ton fla					
Location	s Invo	lved: _	Office, par	king lot				
			by: <u>Lump</u>					
			eted:					
			tative on Sit					
AML Repr	resents	tive's	Signature: R	aymond Rod	arte		<u> </u>	
Contract	ors Re	present	ative's Signa	ture:		·····		
			ruction Crew s				=	
pruning	trees	and sh	rubs that had	been scare	ed in som	e manne	<u></u>	
All hea	vy equ	ipment	was washed by	a power si	teamer th	at the	Contractor	-hauled
into the	e site	. Mate	rial that was	left from	concrete	to rip	rap timber	and steel
was hau	led to	disign	ated areas. (oil spills	were pic	ked and	hauled to	-an-approve d
The Conf	tracto	r will	oe completing	final clea	inup and	demohili	zation no	vt week
	has to	comple	te other work					and the second of the second

Name of Contractor: KHANI CONSTRUCTION	IFB #: 00-52106-03172
Project Name: Grants Uranium Phase 2 Mine	Safeguard Project
Date: 4/29/93	Weather: Warm
Equipment on Site: 621 Case Loader, seed,	straw bails, fertilizer
Locations Involved: Barbara J #1,#2,#3, #	3a
Payment to Contractor by: Number of Units Completed:	
Contractor's Representative on Site:	
AML Representative's Signature: Raymond F	
Contractors Representative's Signature:	
Remarks: Contractor's Activity:	
Spreading the specified seed source on al	l disturbed areas
Spreading the specified amount of fertili	zer en all disturbed areas
Spreading the specified amount of mulch of	n all disturbed areas
Final inspection was completed on 4/29/93	by John Krotzmann, a few items
were noted as being not complete, but the	y will be completed as the Contractor
continues to Demobilize	

Name of	Contrac	tor: _	KHANI C	ONSTRUC	TION		IFB	#:	90-521-	9 6-93172 -
Project	Name:	<u> GRANTS</u>	URANTUM	PHASE2	SAFEGUAR	D MINE	PROJECT			
Date: _	4/27/93				We a	ther:	warm &	win	dy	
										, TD- Doze
				e, East	Malpais	, Beacon	Hill.	Bead	con Hill	18-23 Mi
Number of	of Units	Comple present	eted: Fla	ea Mine	, East Ma	lpais,	Beacon 	!!11 1	Gosset	t, 18-2 <i>3</i>
AML Rep	resentat	ive's S	Signatur	e:Ri	ymond Re	darte -				·
Contrac	tors Rep	resent	tive's	Signatu	re:		·			
					for toda					
					rtilizer					
					on all d			eu (
					disturbo					
					with the		dozer			
					·					

Name of C	ontractor:	Khani Construction		IFB #: 00-521-06-03172
Project N	ame: Gran	ts Uranium Phase 2 Mir	e Safeguard	Project
Date: 4/2	6/93		Weather:	warm
racks,	concrete		····	rate = phosphate), shovels,
		Beacon Hill 18-23, R		ssett, Flea Mine, East
Payment to	o Contract	or by:	·	
				•
				· ·
Remarks:	Activit	ies for today Construc	tion_include	d:
Boring ou	t holes on	rock outcrop to insta	ill survey ca	ps for each mine site.
Digging o	ut 4 feet	of soil material to in	etall posts	for survey caps
Furrowing	disturbed	access roads and mine	sites to pr	epare for seeding and mulching
				trash, lumber and other debri
		led to the nearest lar	_	

Name of	Contractor:	KHANI CONSTR	UCTION		_ IFB #:	00-521-06-03172
Project	Name: GRANT	S URANIUM PHA	SE 2 MINE	SAFEGUARD P	ROJECT	
Date: _	4/23/93		1	Weather: <u>co</u>	ol & windy	
Equipmen	nt on Site: _	621 Case Loa	der. comp	cesor. drill	machine,	concrete
survey	Gaps, backfi	 				
	·			·		
Location	ns Involved:	Barbara J Mi	ne #1.#2	#3.#3a. Fle	Mine	
			·			
Payment	to Contracto	r by:				
Number o	of Units Comp	leted:	·		· · · · · · · · · · · · · · · · · · ·	
						· · · · · · · · · · · · · · · · · · ·
	•	•				
Remarks	: Khani Cons	truction work	ed today	on backfilli	ng with t	ne specified
riprap,	gravel mater	ial, bentonit	e, and ba	ckfill mater	ial from	the barrow pit.
		, backfilling				<u>-</u>
complete	ed according	to specified	or at the	approval of	John Krei	zmann approval.
All work	was also ap	proved by Bob	Evetts.	Bureau Chief	before th	e Contractor was
						dit and shafts
		ding to 0222a				
result.						

Name of	Contractor:	KHANI CONSTRUCTIO	N	IFB	#:_	00-521-06-03172
Project	Name: GRA	NTS URANIUM PHASE	2 MINE SAFEGUA	ARD PROJEC	Ţ	
		~				
Equip ne :	nt on Site:	621 Case Inader	Dozer, seed, m	ulsh, fer	ti 1 i	zer
	,					
			·			
	····			·····		
Location	as Involved:	Beacon Hill Goss	ett, Barbara,	- Barbara d] - #1	,#2,#3, #3a
,						
Payment	to Contract	or by:				
Number o	of Units Com	pleted: <u>Beacon Hi</u>	ll Gossett, Ba	irbara J M	ine	#1.#2.#3.#3a
		entative on Site:				
AML Rep	resentative'	s Signature: Ray	mond_Rodarte			
		ntative's Signatur				
Remarks	: Khani Cor	struction Crew Act	ivity include	d+		
Spreadi	ng the speci	fied seed source				
		fied fertilizer		·		
		fied mułch				
		ecified furrnwing	on all distur	had areas		
		ccording to the sp				
		PHASE 2 MINE SAFFG		1= 5 	OIIID	etët for
		A CASE	raci-Kalldal-			
						

Name of	Contractor:	KHANI CONSTRUCTION	IF	B #: 00-521-06-03172
Project	Name: GRA	NTS URANIUM PHASE 2 MI	NE SAFEGUARD PROJE	CT
Date: _	4/2 1 /93		_ Weather: _warm-wi	ndy
		621 Case Loader,		
Locatio	ons Involved:		. Fast Malpais Min	e
Payment	to Contract	or by:		
Number	of Units Com	pleted:	· · · · · · · · · · · · · · · · · · ·	
Contrac	tor's Repres	entative on Site:		
AML Rep	resentative'	s Signature: Raymond	Rodarte	
Contrac	tors Represe	ntative's Signature:	·	
Remarks	: <u>Khani Cor</u>	struction Crew Activi	ty included:	· · · · · · · · · · · · · · · · · · ·
Contra	actor spent m	ost of the day on con	touring mounds on	hackfilled shafts and
<u>adits</u>	. And some o	f the access roads we	re graded in areas	that established roads
were r	resent befor	e the Contractor star	ted the activity.	
The re	est of the da	v was spent in backfi	lling exploration	drill holes according
to spe	ecifications	and hauling backfill	material to incomp	lete areas
		. <u>.</u>		
				······································

		: KHANI CONSTRUCTION		
Project	t Name: GRAN	ITS HRANTHM PHASE 2 MINE SAFEG	WARD PROJECT	·····
		Weath		
		621 Case Loader, 521 Ca		
Locatio	ons Involved	: T-20 Mine, Barrow Pit, Be	eacon Hill Mine Gosse	tt
		tor by:		
Number	of Units Co	mpleted:		•
Contrac	ctor's Repre	sentative on Site:		·
AML Rep	presentative	's Signature: Raymond Rodart	e	<u> </u>
Contrac	ctors Repres	entative's Signature:		
Remarks	s:Khani_	Construction Crew-activity in	cluded:	
		ation drill holes.		
<u>Pluggin</u>	ng explorati	on drill holes over 150 feet.		
At appr	oxiamately	11:30 am the Contractor and my	yself discovered two	large features
		ubsidence hole with a dead cal		
		measured 10'w x 12'1 x 78'd.		
		nger to the public and to anim		
		and tried to contact Bob Evett		
		hat we should backfill both s		

Name of Contractor: KHANI CONSTRUCTION	IFB #:)) %@!)¢)#!&@
Project Name: GRANTS URANIUM PHASE 2 SA	
Date: 4/19/93	
Equipment on Site: Measuring tape	
Locations Involved: Poison Canyon,	
Payment to Contractor by: Number of Units Completed:	
Contractor's Representative on Site:	
AML Representative's Signature: Raymon	
Contractors Representative's Signature:	
Remarks: Khani Construction Crew took	
and recieved an approval to go ahead and	
fifty exploration drill holes. I spent	
drill holes and measuring them, most of	
we might go with more then 150 explorati	
The rest of the day was spent on reconas	
a Uranium Mine near the Pioson Canyon ar	

Name of Contractor: Khani Construction	IFB #: 00-521-06-03172
Project Name: GRANTS URANIUM PHASE 2 SAFEGUARD PROJECT	
Date: 4/16/93 Weather:	ool & windy
Equipment on Site: 621 Case Loader, 580 Case Backhoe,	
Locations Involved: Barbara J- Mine #2,#3,#3a	
Payment to Contractor by: Number of Units Completed: Contractor's Representative on Site: AML Representative's Signature: Raymond Rodarte Contractors Representative's Signature:	
Remarks: Khani Construction Crew spent a couple of how all equipment. During this time I drove to the nearest office to inform the project engineer and the bureau confice to John Kretzmann about some of the shafts can the required cubic vards of riprap, therefore I will have total volumes. Before 2:00 p.m. I had to stop the haur riprap until the rock is pushed in the shaft in each shaft.	t phone and called the nief on all activity. Lapsing and not receiving ave to modify some of trucks from bringing in maft. All the riprap has
been very durable and large enough to break any kind of	f bridging on mine openings

Name of Contractor: KHAN CONSTRUCTION IFB #: 00-521-06-03172
Project Name: GRANTS URANIUM PHASE 2 SAFEGUARD PROJECT
Date: 4/15/93 Weather:cool & sunny
Equipment on Site: 621 Case Loader, End-dump trucks 30vd
Locations Involved: Barbara J-Mines #1.#2.#3.#3a
Payment to Contractor by: Number of Units Completed:
Contractor's Representative on Site:
AML Representative's Signature: Raymond Rodarte
Contractors Representative's Signature:
Remarks: Khani Construction Crew began work on the Barbara J Mines, most of the
work consisted of backfilling with riprap which had been hauled from McKarth's
Pit just east of Grants, New Mexico. The specified gravel material was hauled
and weighed at a nearby gravel pit, a couple more ft of gravel was dumped in each
shaft to compensate for some of the material falling in from the sides of the shafts.
The shafts that were required to get 2' to 3'of Bentonite all recieved the required
amount exempt for the Barbara J-2 Mine which calapsed before it recieved bentonite.
While backfilling Barbara J-3a Mine, water continued coming up with the riprap, there
fore I called John Kretzmann and asked to go with more riprap since dirt was going to be lost while water was still present, he gave us the ok to use a bit more rock which worked just fine.

Name of Contractor: KHANI CONSTRUCTION IFB #: 00-521-06-03172
Project Name: GRANTS URANIUM PHASE 2 SAFEGUARD MINE PROJECT
Date: 4/13/93 Weather: _cool & windy
Equipment on Site:621 Case Loader
Locations Involved: Barbara J-Mines #1,#2,#3
Payment to Contractor by:
Number of Units Completed:
Contractor's Representative on Site:
AML Representative's Signature: Raymond Rodarte Contractors Representative's Signature:
Remarks: Construction activity for the day included: Hauling the specified riprap to each shaft
Loader operator pushed in excess riprap into shafts
At approxiamately 1:00 P.M. the Barbara J 1 Mine calapsed which was approximately
backfilled to 90ft. Since the south side of the shaft calapsed with concrete collar
it was inpossible to pour in the hentonite as specified and by focusing on the
danger of the shaft opening more and being near the road I thought the safest thing
was to continue backfilling before the evening was over. Jorry White from OSM was
present at the site with Randal Armijo whom verified the cave in of the shaft.

Name of Contractor:	KHANI CONSTRUCTION		IFB #:	00-521-06-03172
Project Name: GRANTS	URANIUM PHASE2 SAFE	GUARD PROJE	СТ	
Date: 4/4/93	···	Weather:	coòl & člea	<u>r</u>
Equipment on Site:	621 Case Loader		-	
Locations Involved:	Barbara J Mine #1.#			
Payment to Contractor	r by:			
Number of Units Comp	leted:			•
Contractor's Represen	atative on Site:			··
AML Representative's	Signature: Raymon	d Rodarte		
Contractors Represent	tative's Signature:		<u> </u>	
Remarks: Khảni Cons				•
the morning was spent			this time a	<u>ll equipment was </u>
checked and lubed.				
I mentioned to the Co	ntractor on this mo	rning that	we at AML of	fice would have
to have the testing r	result before any ri	prap was du	mped in any	of the open mines
The Contractor showed	i me some test resul	ts that were	e from the r	iprap and a FAX
was sent to the offic	e identifing that a	ll material	was tested	and pasted all re-
quirements according riprap into Barbara S	to specefications. J #1,#2 mine.	The rest o	f the day wa	s spent in dumning

Name of Contractor:	KHANI CONSTRUCTION	IFB #: 00-521-06-03172
Project Name: GRAM	TS URANIUM PHASE 2 SAFFGUA	RD PROJECT
		er: _cool - clear
_	621 Case Loader, 30 ton Enc	
safety harness, safe	ty ropes. shovels, picks.	
Locations Involved:	Barbara J- Mine 3, 3a	
Payment to Contracto	: by:	
Number of Units Comp	leted:	**
Contractor's Represe	atative on Site:	·.
AML Representative's	Signature: Raymond Roda	rte
Contractors Represen	tative's Signature:	· Arter
Remarks: Khani Const	ruction activity included:	
Trucks hauled the s	pecified riprap from McCart	thy's open pit which is east of
Grants, each loads	contains durable rock mater	rial containing approximately
20tons to 25 tons p		
John Kretzmann show	ed up at the site at approx	cimately 2:30 p.m. to discuss the
activity and look o	ver the areas that had been	hackfilled, a couple of places
	re additional work before t	, , -
	the Barbara J#3-a Mine was	
		r this smaller rock was dumped into

Name of Contractor:	KHANI CONSTRUCTION	IF	B #: 00-21=06-03172
Project Name: GRAN	NTS HRANTIM PHASE 2 MINE	SAFFGUARD PROJ	CT
Date: 4/2/93		Weather: windy	& cool
Equipment on Site:	580 Case Dozer, 621 Ca		
Locations Involved:	Flea Mine		
Number of Units Com Contractor's Repres	entative on Site: Khan	i Construction C	rew
•	s Signature: Raymond R		
The Contractor on a couple of sites locations to be be	the waste pile where the last of employment the waste pile where the last of employment and a second the last of dirt	ne Contractor was byees working on abri was bualed material or bur rding specificat	ied inside the adits.

lame of	Contract	or: K	HANI CON	STRUCTION		IFB #	: 00-21-06-03172
				PHASE 2 MIN			
ate: _	4/1/93				Weather:	warm	
			_				els, picks,
ocatio	ns Involv	/ed:	Geacon Hi	ll Mine, Be	acon Hill 1	8-23 Mine	
					•		
				: Raymone			
_						t fares.	
	Mines. mo	st of	the work	was final	contouring,	-grading a	at both Beacon nd cleaning the bsidence holes were
							sidence holes were sidence holes will
						-	-holes, which has
						•	Sonny Marquez whom
							give me before
				ated that			•
me as	soon as	ossib	le. He a				nad his approval to

Access ID No. 17960

Name of Contractor: Khani Construction	IFB #: 00-521-06-03172
Project Name: Grants Uranium Phase 2 Mine S	afeguard Project
Date: 3/31/93	Weather: Sunny and Cool
Equipment on Site: 580 Case Backhoe, 621 Case	Loader
Locations Involved: East Malpais, Flea Mine	
Payment to Contractor by:	
Number of Units Completed:	
Contractor's Representative on Site:	
AML Representative's Signature: Raymond Roda	rte
Contractors Representative's Signature: The Co	entractor continued installing the PVC covering on
the Flea Mine and East Malpais. All work was co	ompleted according to specifications. A list of the
requirements will follow on the final report. Topso	il for the Flea Mine and East Malpais was borrowed
form a waste pile area that contained suitable topsoi	l. A few deficiencies were noted but were corrected
before the day was over.	

Name of Contractor: Khani Construction	IFB #: <u>00-521-06-03172</u>
Project Name: Grants Uranium Phase 2 Mine	Safeguard Project
Date: 3/39/93	Weather: Cloudy and Muddy
Equipment on Site: None	
Locations Involved: No work. Bad Weather.	
Payment to Contractor by:	·
Number of Units Completed:	
Contractor's Representative on Site:	
AML Representative's Signature: Raymond Rox	darte
Contractors Representative's Signature: The	Contractor did not show up because of bad weather.
I drove to the project site in the morning to inform	the laborers that weather conditions prohibited work.
From 1:30 to 3:30 I recovered some of the Marci	us Mine.

Name of Contractor: Khani Construction	IFB #: 00-521-06-03172
Project Name: Grants Uranium Phase 2 Mine	Safeguard Project
Date: 3/29/93	Weather: Snowy and Cold
Equipment on Site: Grader	
Locations Involved: Beacon Hill Mine	
Payment to Contractor by:	
Number of Units Completed:	
Contractor's Representative on Site:	
AML Representative's Signature: Raymond	l Rodarte
Contractors Representative's Signature: The	e Contractor moved small grader to Beacon Hill Mine,
left project site at 10:00 am. No work was de	one because of snow and rain. I drove to Gallup to
Finalize the maintenance work, the Maintenance	ce work was completed. John Eichmann had backfilled
three subsidence features that were related to the	ne 1980 AML work done on the east side of Gallup near
highway 602.	

Name of Contractor: Khani Construction	IFB #: 00-521-06-03172
Project Name: Grants Uranium Phase 2 Mine Saf	eguard Project
Date: 3/22/23	Weather: Cool and Cloudy
Equipment on Site: 520 Loader, 621 Car Loader Locations Involved: Barbara J #1 and 2 Mine	
Payment to Contractor by:	
Number of Units Completed:	
Contractor's Representative on Site:	
AML Representative's Signature: Raymond Roda	arte
Contractors Representative's Signature: The Con	stractor worked throughout the day on backfilling
exploration drill holes. Some holes had to be reject	ted because they plugged before being backfilled
completely, while others needed proper removal of v	ent pipes. Several exploration drill holes and vent
holes will need to be backfilled with additional mate	erial because they have opened wider. At
approximately 5:15 I left to Gallup to inspect a mai	ntenance project at Mr. Williams property. I
returned to Grants at 9:30 p.m	

Name of Contractor: Khani Construction	IFB #: 00-521-06-03172
Project Name: Grants Uranium Phase 2 Mine Safeg	uard Project
Date: 3/26/93	Weather: Cloudy and Cold
Equipment on Site: 621 Cat Loader	
Locations Involved: Barbara J # 3-34, Gossett Mine,	East Malpais, Flea Mine, 18-23 Mine Hill Mine
Payment to Contractor by:	
Number of Units Completed:	
Contractor's Representative on Site:	
AML Representative's Signature: Raymond Rodart	<u>e</u>
Contractors Representative's Signature: Starting of	f the morning I worked each mine feature that
will be covered with the PVC liner followed by one for	ot of topsoil. I checked the installation of PVC
which met all requirement according to specs. Several	vent shafts were lined with metal casing which
took several hours to pull the casing out. Melvin Ma	rcus whom is the leasee on Section 20 showed
me an additional subsidence hole which had not been	noted before.

Name of Contractor: Khani Construction	IFB #: 00-521-06-03172
Project Name: Grants Uranium Phase 2 Mine S	Safeguard Project
Date: 3/23/93	Weather: Warmer
Equipment on Site: Shovels, Wheelbarrow, 621	Case Loader
Locations Involved: East Malpais, Barbara J 3	Mine
Payment to Contractor by:	
Number of Units Completed:	
Contractor's Representative on Site: Khani C	Construction
AML Representative's Signature: Raymond Ro	darte
Contractors Representative's Signature: The Co	ntractor started filling drill holes at East Malpais at
8:30, at 11:00 I stopped all activity and sent the Co	ontractor to Poison Canyon Mine. I called the office
and Consulted with John Kretzmann at the office	for we had reached 600 exploration drill holes. I
stopped backfilling holes until we have averaged a	ll the holes and total of funding that has been
appropriated hole to be funded to before proceeding	ng. A total of 114 exploration drill holes were
backfilled today.	

Name of Contractor:	Khani Construction	IFB #:0	0-521-06-03172
Project Name: Grants	Uranium Phase 2 Mine Safe	guard Proje	:t
Date: 3/22/93	·····	Weather:_	Warm and Clear
Equipment on Site: 58	O Case Backhoe, 612 Case	Loader	
Locations Involved: Flo	ea Mine, Beacon Hill Mine		
Payment to Contractor I	y:		
Number of Units Compl	eted:		
Contractor's Representa	tive on Site:		
AML Representative's S	ignature: Raymond Rodar	te	
Contractors Representat	ive's Signature: The Contr	actor started	work this morning at Beacon Hill
Mine on backfilling both	36" vent shafts which were c	ompleted at	11:30 am. Most of the Construction
continued in backfilling e	xploration drill holes around	the Flea Mi	ne area. At approximately 4:15 the
Contractor had backfilled	157 exploration drill holes.	There was a	total of 7 exploration holes that were
over 12" diameter and de	eper than 15 feet that were	plugged acco	ording to specifications.

Name of Contractor: KHANI CONSTRUCTION	IFB #:
Project Name: GRANTS URANIUM PHASE 2 SA	FEGUARD MINE PROJECT
Date: 3/19/93	
Equipment on Site:580 Case Backhoe,	621 Case Loader
Locations Involved: Beacon Hill Min	e Gossett. Beacon Hill 18-23 Mine
Payment to Contractor by: Number of Units Completed:	
Contractor's Representative on Site:	
AML Representative's Signature: Raymon	
Contractors Representative's Signature:	
	in the second
Remarks: The Contractor started work a	t 7:45 a.m. at the 18-23 Mine, most
of the work consisted of clearing up a	1 the timber which was bridged at the
entrance of the adit, labor's were stra	upped with safety ropes and harnesses
and slowly lowered into the incline sha	ift to bring out all timber that could
	prap. A total of 9 bucket loads of riprap
	ch broke all left over timber inside the
	comtinued to backfill the incline adit
	3yds per bucket. The rest of the crew
continued in backfilling and plugging e marked and documented on the daily log	vnlowation duill below that had been a

Name of Co	ontractor:	KHANI	CONSTRUCTION	1	IFB	#: 00-2	1-06-03172
							
Payment to	o Contract	or by: _		·	······································		
Number of	Units Con	mpleted:	·		<u></u>		
Contractor	r's Repres	entative	on Site: _				
AML Repres	sentative	's Signat	ure: Raymon	nd Rodarte			
Contractor	rs Represe	entative'	s Signature	:			
							this morning
							or had finished
						·	ed demolition
							unch I was
							frame was ready
							ıd Nohn Kretzmanı
about th	e acitivi	ty. The	Contractor	kept on back	filling th	ne East	Malpais Mine
which in	cluded 15	to 20 fe	et of répra	p and backfi	lling of w	vaste ma	terial PVC
liner an informat	d topsoil ion refer	. All wo to speci	rk was comp ficationa a	leted accord nd modificat	ing to spe ions that	ecs, for have be	more detailed en approved.
							Back:

Name of Contractor:	KHANI CONSTRUCTION	IFB #: 00-521-06-03721
	NTS URANIUM PHASE 2 MINE SAFEGUARD	
0116100		
	TD-25 Dozer, Cutting torches,	
Locations Involved: Gossett Mine	Flea Mine North & South, Barbara	
	or by:	
Contractor's Represe	entative on Site:	· · · · · · · · · · · · · · · · · · ·
AML Representative's	Signature: Raymond Rodarte	
Contractors Represen	ntative's Signature:	
	struction started work at the Flea s spent in excavating debri from e	
	and pilling all timber to be covere	
of soil material.	At the Beacon Hill Gossett all t	
out was dismantled	and buried in a large pit as speci	
	ed for the timber, but after consu	
	imber since it had been effected t	
	necked with the Sub-Contractor on t	
frame and on direct	ing the Contractor's Crew on all was refer to the specifications.	

Name	of	Contractor:	Khani Construction		IFB #:	00-521-06-03172
Proj	ect	Name: GRAN	IS HRANTHM PHASE 2 MINE	SAFEGUARI	PROJECT	
Date	:	3/15/93		Weather:	cloudy & w	indy
Equi	pmeti		TD-INTERNATIONAL DOZ			
						
Loca	tion	s Involved:	PARKING AREA, ACCESS	ROADS		
-			or by:			
Numb	er c	of Units Com	pleted:			• •
Cont	ract	or's Repres	entative on Site:			
AML.	Repr	esentative'	s Signature: RAYMOND	RODARTE		·
Cont	ract	ors Represe	ntative's Signature: _			
			struction Crow worked			
			ruction. The contrast			•
			ge truck. Most of the			
-			the office trailer, la	·	_	
tr	e er	trance road	later a diesal tank	was haule	d and placed	l near the office
_wh	ile	Jim Wolf wh	om will be the Foreman	showed me	the respira	tors, safety glass
bo	ots.	safety har	ness, safety rope and	fire extin	guisers and	FIRST AID KITS that
in Be is an	tak fore sued d le	ing test wi tthe day was to each emp ft at the o	to be used during the th the ESP-1 portable, sover the Contractor so loyee with a set of coffice. Also at the end-lock bag and left on	most of the howed me to the howed me to the howed me to the how do not have do	he reading b he TLD badg	eing ûnder +01 ur/H es that will be

Access ID No. 17960

Name of Co	ontractor: _	KHANI CONSTRUCTI	ON	IFB #:	00-521-06-03172
Project Na	GRANTS	URANIUM PHASE 2	MINE SAFEGUARD PR	OJECT	
Date:	3/11/93	-	Weather: _win	dy & colo	<u> </u>
Equipment	on Site: 58	30 Case Backhoe	concrete mix, b	entonite	sacks
		nole plug sacks			
				-	
Locations	Involved:	Beacon HIII 18-	23 Mine, East Malı	pais, Bar	bara J-#1,#2 Mine
	_				
Payment to	Contractor	by:			
			ond Rodarte	•	
-					
Contractor	rs kepresent	ative's Signatur	e:		
Remarks:	Khani Cons	tructión Crew be	gan work this morn	ning-at-t	he 18-23 Beacon
Hill Mir	ne. All tim	her was removed	from the entrance	of the m	ine, the Crew
_used all	pre-cautio	nes measures in v	wrking in and are	und the	adit. Each employ ee
used a r	respirator w	hen directed, sa	fety ropes and har	ness and	coveralls.
John Kre	tzmann and	John Guranich sho	wed up at the sit	ie to mea:	oure waste piles
and look	cover the a	ctivity at about	noon. The Contra	ctor star	rted-backfilling
explorat	ion drill h	oles that were ma	erked and measured	land that	t will be documented
on a dai J Mines	lv log thru continued a	out the project	Demolitian of to	he headfi week is (rame at the Barbara Over. The Rancher
and Cont should b	ractor talke e cut too.	ed with the Sub-C	ontractor on what	size the	pieces of steel



FAX COVER SHEET

2506 West Mein Street Farmington, New Mexico 87401 Tel. (505) 326-4737

INTER-MOUNTAIN LABORATORIES, Inc.

Soil, Water, Metals, Organics FAX (505) 325-4182

Camaan	Khahi (o.	
Company;		
Attention:	Jim Wolfe	
Fax#:	877 - 8349	
	This transmission consists of this cover sheet plus other pages.	
Message:	This is passing all requirements for the chimical analysis.	
	I will call you on Monday with	
	the Radium results.	
	Report is one page and follows	
	this cover sheet.	
	dido Spancer	
	4-7-93	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Inter-Mountain Laboratories, Inc.

Farmington, New Mexico 87401

Tel. (505) 326-4737

2506 West Main Street

ATE SAMPLED: April 2, 1993 ATE REPORTED: April 7, 1993

KHAMI CO. ALBUQUEZQUE, NEW MEXICC MIME: GRAMIS JRAMIUM PHASE II LOCATION: GRAMIS, MEW MEXICO

Page 1 of 1

r-	SAMPLE IDENTIFICATION	pH, PE	Total Dissolved Solids, mg/l	Dissolveó Arsenic, PE	Dissolved Chromium, PE	Dissolved Lead, PE	Dissolved Selenium, PE	Dissolved Vanadium, PE	Radium 22b p€i/l	Ragium 228 pCi/l
685 26879	RIP RAP-NcCURDY PIT, FOREST RD 400	7.0	233	<0.005	<0.02	<0.02	0.005	<6.01	Na	NA

Ë

Reviewed by:

Soil Lab Dire

Appreviation

Appreviations : PE, Paste Extract; NA, Not available at this time.

Access ID No. 17960

US-NAUM0167560

US-NAUM0167523-00038

Monts II Preliminary Quantity Tateoff JAK 5.5-9Z

Barbara J#1: Shaft

(4' x 9.4' x 300' (3) D) 1.15 = 480 Cy = Vol. Internal. Vol. ext. = [(4)(94)+(22)(274)+4(13)(18.4)]1.15(76/27)

V+10T = 492 cy use 490 cy

Barbana J#Z: Shaft 5'485' ellipse

(33.3690 fe2) (460') 1.15 = 654 cy = Vint.

Vext. = (5)(8) 5) + (23) (26.5) + 4(14)(17.5) 1.15 1,2404/4

VTOT. = 665 cy use 665 cy

Bubara J # 3: 7'4 x 425' deep Vint. = \ \ \frac{11(1)}{4}(435)(\frac{115}{27}) = 713 cy

 $V_{\text{ext}} = \sqrt{\frac{\pi(7^2)}{4} + \frac{\pi(3)^2}{4} + \frac{4\pi(16)^2}{4(16)^2} = \frac{1.15}{6(27)} = 9.5c$

/ Vtor = 722 cy use 720 cy

Bombara J# 3-A:

 $V_{int} = \frac{3}{4} \times \frac{3000}{27} \times \frac{3000}{27} \times \frac{1054}{27} = \frac{70.3}{20.3} \times \frac{70.3}{27} \times \frac{1054}{27} \times \frac{1054$

Vext. = $\sqrt{\frac{\pi(3^2)}{4} + \frac{\pi(27)^2}{4} + \frac{4\pi(4)^2}{6(27)}} = 4$

VTOT. = 95 cy use 95 cy

Subtotal This Pg. 197004

JAK Quants II 5.5-92 Preliminary Quantity Totalt Barbara J#1: Shaft (4' x 9.4' x 300' (3) D) 1.15 = 480 Cy = Vol. Internal. Vol. ext. = [(4)(94) + (22)(274) + 4(13)(18.4) 1.15(= 11.3 04 V+10T = 492 cy use 490 cy Barbana J#2: Shaft 5'485' ellipse (33.300 fe2) (460') 1.15 = 654 cy = Vint. Vers. = [(5)(8)5) + (23)(26.5)+4(14)(17.5)] 1.15 1.24 04/F4 VTOT. = 665 ay use 665 ay Boulance J # 3: / 7'0 × 425' deep Vint. = / TT(7) (435)(115) = 713 cy $V_{ext} = \int \frac{\pi(\vec{x}^2)}{4} + \frac{\pi(z_5)^2}{4} + \underbrace{4\pi(i_6)^2}_{6(27)} \frac{1.15}{6(27)} = 9.5c$ V tot = 722 cy use 720 cy Bombona J# 3-A: $300 \times 300'0'(8cm)$ Vint. = $\frac{11}{4}(3)^{2}(350)\frac{1.15}{27} = \frac{1054}{90.3}cy$

 $V_{\text{int.}} = \frac{\pi (3)^{2} (360)}{4} = \frac{1.15}{27} = \frac{90.3 \text{ cy}}{4}$ $V_{\text{ext.}} = \sqrt{\pi (3)^{2} + \pi (27)^{2}} + 4\pi (47)^{2} + 4\pi (47)^{2} = 4.5$ $V_{\text{TOT.}} = 95 \text{ cy} \qquad \text{use } \sqrt{35 \text{ cy}}$

JAK 5-5-92

Flex Mine: need angles of declination of adits

East Malpars Rease:

For de die adit: reed Lot declination

width of trance in front of adits

grants I (con't)

JAK 7-14-92

Flea Mine

North Adit : declined at 70 angle of repose-use 270

13'W x 8'H

Trench: 22'H x 65'L x 13'W

L= \frac{8'}{tanzoo} = 72'

Vint. = [(15)(13)(B) + (8)(22)(13)] 1.15 = 115.2

 $Vext. = \frac{(22)(65)(13)(1.15)}{2(27)} = 395.9 cy$

VTOT. = 511 cy use 51004

South Adit: declined @ 20°30'

L= 6.3 = 1441 7.7'W × 6.3'H Vint. = [(7.7)(6.3)(15) + (6.3)(14)(77)] 1.15 = 179,8cy

Vext. = Assume ~ 150y VTOT. = 195 ay use 1950y

Beacon Hill #18-23

#18.23 $7' \times 8.5'$ @ 48° declination

4 block at $\pm 60'$ holds:

Vint. = (7)(8.5)(60')(1.15) = 152, (cy

 $Vext. = [(17)(22) + (35)(40) + 4(26)(31)] \frac{1.15}{6(27)} = 35.5a$

grants II (cou't)

dedoned @ 170-200 Adit & 9'W x 8'H 14' H x 20' L x 15'W Tranch

mine waste Lot repose = 360

Vint, = [(9)(8)(15) + 8(45)(9)] 1.15 = 1150 ay

Vext. = (14)20/15)1.15 = 89.44

VTOT = 204 Cy

use [205 cy

3'\$ x 87'D

 $V_{Int.} = \frac{11(3)^2(87)\frac{1.15}{27} = 26.2cy$

Vext. = $\left[\frac{\pi(3)^2}{4} + \frac{\pi(2)^2}{4} + \frac{4\pi(12)^2}{4}\right] \frac{1.15}{4}$

V10T. = 31.9 cg

same size /depth

VTOT = (31.9) Z = 63.804 use [6504

Barbara
$$J = 1$$

$$V = (4)(94)(3)(1.15) = 32/4.8cy$$

Barona J # 8
$$V = (330369062)(3)(115) = 4.36$$

Barbara J #3
$$V = \frac{\pi(7)^{2}(3)}{4} = 4.9 \text{ cy}$$

Barkara
$$J # 3.4$$

 $V = \frac{\pi (2.5)^2}{4} (3) \frac{1.15}{27} = 0.6 cy$

East Malparo Lease
$$V = (7)(6)(3) \frac{1.15}{27} = 5.4 \text{ ay}$$

Fracon Hill # 18-23
$$V = (17)(22)(3)\frac{1.15}{27} = 47.8 \text{ cy}$$

Grants I	
Compacted	Impervious MK

$$V = \left[\frac{8}{5m45}(3)(15) + 20(15)(5) + (3)(5) + (3)(15)\right] \frac{1.15}{27} = 45.6a$$

East + West Vents

$$\frac{T(3)^2}{4}(3)\frac{1.15}{27}=0.9ay$$

use 1200 cy

US-NAUM0167567

Special backful of Barbaras mines, assume filling rock to 150' below ground #1: Rock $(4')(94')(150)\frac{115}{27} = 240$ ay $a = 50 = \frac{4}{12},000$ Buttonike (4')(94)(1)/27 = 1.39 cy a = 500 = 697Conc. (4')(9,4')(4')/27 = 5.57 ay a = 150 = 885Mine Washe: $(4')(9,4')(145')\frac{1.15}{27} = 232$ cy a = 88 = 1900Penare finite lagging a = 150' depth a = 150

#2: $33.3690 \, \text{ft}^2 = 1.736 \, \text{cy} \, \text{ft} \times 1.15 = 142 \, \text{cy} \, \text{ft}$. $460' \, \text{D}$.

Fort: $(1.42)(310) = 440 \, \text{cy} \, \text{e} = 50 = 522,000$.

Bentomile: (1.42)(4) = 500 = 710Conc. $(1.42)(5) = 710 \, \text{cy} \, \text{e} = 1065$ Mui Waste $(1.42)(144') = 204 \, \text{cy} \, \text{e} = 1630$ Remove timber pagnic @ 150' depth = 1500 $\frac{1}{7}26,905$

#3: 7'9 x 455'D 38.08 ft² = 1.43 ay/t+ x 1.15 = 1.64 cy

Pork: (1.64)(285) = 467 cy & 50 = 28,370. F4.

Bentombe: 1.64 cy & 500 = 820.

Conc / (1.64)(7) = 11.48 ay & 150 = 1725.

Min/Mark (1.64)(42') = 235/5/8 = 1865.

Pernove sheel lung & 50' dyth = 1500

\$79,280

#34. 3'\$ x 500'(?) D. 7.075F = 0.264/14 x1.15 = 0.3044

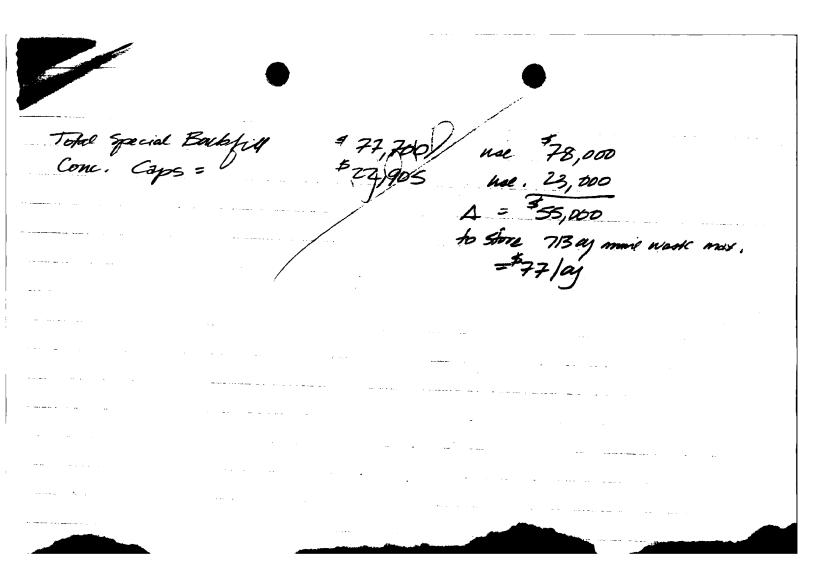
Book (0.30) (150) = 4544 \$50 = \$72,250

Bontonite: 0.30 \$500 = 150

Conc. 0.30(3) = 0.94650 = 685

Min. Waste: (0.30) (146) = 44468 = 350

Bennone Seel lung @ 150' depth = 1250



Access ID No. 17960 US-NAU

C-1-P Conc. Cap at Borbara I Mines (assume #1: Top: (4+0,5+4)(9,4+0,5+4)(7/2) = Footing: 2(13,9')(2')(12) + 2(4)(2)(12) = 66 af 135¢ = 5,00y 5.004@\$250 = Excavation. (home) Formwork 385F @ \$5.50 210 Fast Footing Formork 50 2" PUC Drains 3(1.083') = 3.25 0\$4 = 13 Formork Support Beans JV 2(8) = 164 × \$25 Finding + aing 170 x 0,10 (= \$ 4,995 = \$ 65 / cy mue waste street). assure 8'-12' cover Conc.: top (9.5)(13')(=) = 82 CF 5106 B Hg: (9.5(13)) - 33,37 = 800F (43)(49)+4(21,3)(31)+(95)(3))2 (33,37)(2)=43 4120 345F @\$5.50: \$190 Formorda: Footne Formerla Support Bama: 2(15') = 19' (0\$25 Backfill above Cap: 200 @ \$5 = 2

assime 8'-12' coner 7'\$ => 11' \$ Cap #3 Top: $(\frac{35}{72}) = \frac{7207}{23567} = \frac{7207}{10.5106} = 5106C$ $+4\pi\overline{29^2} + \pi\overline{1^2} = 8482CF$ 314 @\$10 Formwork = # 112 - 955= @ \$7.50 = \$710 \$100 Footne toumous 450 Support Beans: 2(9) = 15 @ \$25 Badefill = 31404 @\$\$ Δ = \$25,760 = 5,00 /cy # 3A assume & - 12' power 3'phale = 7 4 ap Top: (#75) = 22 CF Footing = (+72 - +32) 1 = 7.20F 304 = 1.08cy × \$50 = \$270 7 SF @ \$10,00 = \$70 ^{\$}50 Fooling Formula 350 Support Blam = none Excv. + Backfill (# (13) + 4 # 152 + # 72)12 # 132 4 + 4 + 4 + 6 - 4 = 6908 - 7.06 = "CADICF = 256CY TETAL = \$4,550

		J. Kretzman
hants II		7-27-92
an with the	_	

Groundwate Les	Ground Elev.	Water 9	rovndwalu Elev.
Barbara 1#1	6880		< 6680
Balbara J * Z	6880	181' (metane *	6700 (?)
Banbara 1#3	6940	280'	6660
Baltana J#3A	6910	255'	6655
Well near buy.	6755	100'	6655

ellenation.

Flea Mine ~ 7000 163' <6840

. Backfill with rigrap to min elev. 6740

Location	Approx. ground Elev.	to no less than	'Below Ground
J#/	6880	140	isene ground
J#2	6880	140	• .
J#3	6940	200	
J#34	61.10	170	en e

only ~1' of water in bother of Shatt.

JAK Guantity Takeoff 7-31-92 Fill Volumes / Zone - Barbara J Shafts VOL. OF FILL VLF: Bentonise Q Z.5VLF (80#/CF) J#1: (4)(9.4)(1.15) = 1.60 CY/NE (7,520#) J#Z: (33,369) 1.15 = 1.42 cy/vcx = 839CF (6674#) $J#3: \left(\frac{H-7}{4}\right)\frac{1.15}{27} = 1.64 \text{ cy/n}$ -(2.5) = 96,2CF (7,697*) J#3A: (11-2.5).15 = 021 CY/VLE TT25 (2.5) 4 = 12.3CF (982*) 4.87 CY/VE = 10.64 (22,873*) Inert graves | Sand: @ 10 VLF (4.87)(10)= 49cy use 50cy Butonite: @ 2'-3'VLF (4.87)(3) = 14.6 cy use 12 cy (4.87)(Z)= 9,7ay = 324-CF @0.625CF/bag = 520 bags Borrow UH.:

787
82504-50-12 = 775
2000 me 20509 37.7 ay use 40 ay 9-8-9Z On-sik borrow (borrow + soil): 1#1: (1.60)(170-10-2-3) = 24844, Int. + 11.3 ay Est. 5705 = 7001 CF = 4'x 25'x 30 J#Z: (1.42) (140-10-2-3) = 220 cy Int. + 11.614 Ext. 231.7c4 = 5106 U-7 4'x 26'x 3' J#3: (1,64)(170-10-2-3) = 254,244

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263.74 = 7120CF =>4'x25'x71

JAK 1-892

On-site borrow (con't.)

Flea: N:
$$(10')(65')(13')(1.15) = 36 \text{ M} = 9720F 914889 +100.}$$

Beacon Hiel Gossett:

Adit:
$$(20')(1.0)(1.15) = 12.8ay$$

27

```
Grants II
Estimate Riprop Volume | Weight
```

J. Kretzmann 7-27-92

Barbara
$$J # 1$$
: $203' Deep (Messured)$ if $300' Deep$

$$\frac{-140}{63' Riprap} \frac{160' Riprap}{(\omega)(4)(94)(1.15)} = 25\omega = 484$$

$$Vol. = (63)(4)(9.4)(1.15) = 101\omega = 192 Tons$$

Barbaro J#Z:
$$182'Deep$$
 | # $460'Deep - 40 = 320'$

$$\frac{-140'}{42'Riprop}$$
 | $(320)(33.3690)\frac{1.15}{27} = 465y = 8647$

$$862. = (42)(33.3690)(1.15) = 600y = 1/37000$$

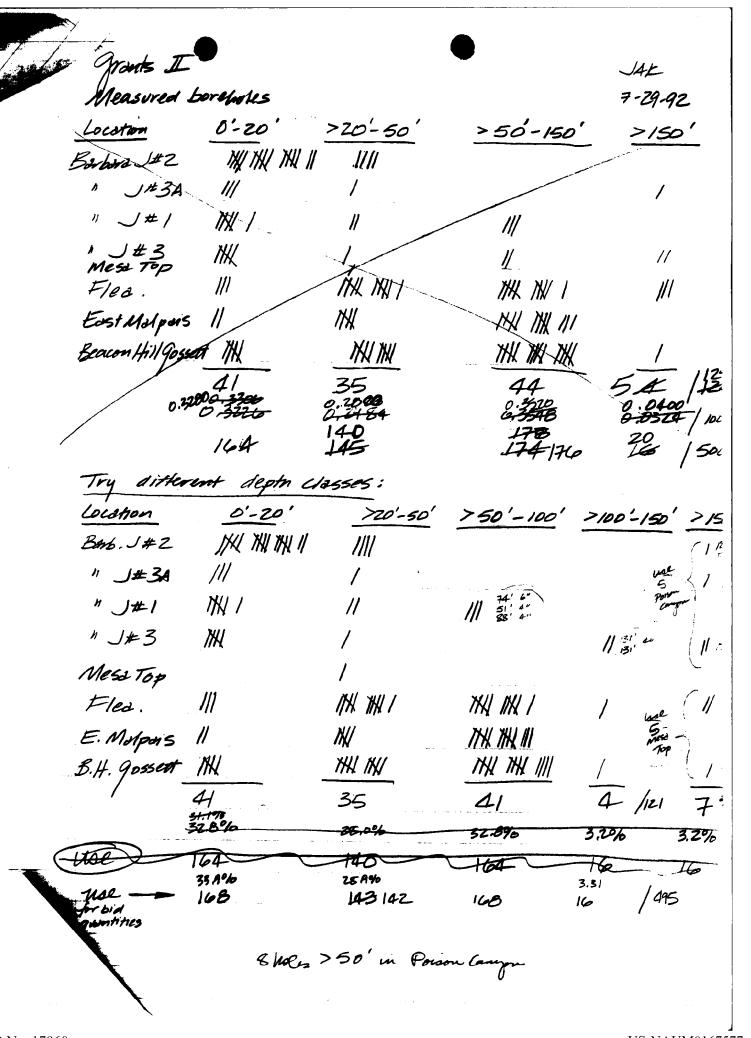
Barbane
$$J#3: \sim 510' Deep$$
 if $435' D - 200' = 235'$

$$- 200' \qquad (235) (T7) (235) (T7) = 585 ay = 732T$$

$$310' Ripap$$

use 1,500 Tons

S. Kretemunn Geants II 7-27-92 Ventilation of Boreholes Bordholes (4"-6" \$ 02 collapsed: Location Vent. Holes 1-15" (46'0) Z4 (6'-88'D) Barbara J#1 1-9" (7'0) 1-9" (48'0) Boutona J + Z 1-18" (173'D) Y 80 1-15" (13'0) ~ B (6'-131'D) Barbara J#3 1-12" (275'D) 1-12" (30) (capped) 8 (8+120 5 Nototal, Parson Boutona J# 34 1-12" (163'D) 1-13" (1610) 45 (4'-98') Flea Mine 1-13" (163'0) 1-13" (131'D) (dry) East Malpois 5-9" to 15" (45'-87'D) 64 (5'-77') 50 Beacon Hill # 18-23 1-11" (5'-38') Beacon Hell Genett 1-11" (65'D) 14 gracems + 15% 482 Holes 16 Brollow 998 Total use 500 for bid quents



Grants II

Guantity Takeott

Fill Volume above Riprop

JAK 7-29-92

Barbors J#1: Sheft

Borbara 1#2: Shoff

Barbara 1#3; Snott.

Barbara J#3A:

Vint. =
$$(170)(\frac{\pi}{4})\frac{2.5}{27} = 35.5a$$

TOTAL BZS CY

* Does not include volume of riprop fill at bottom of shafts

```
Juantity Take off | Cost Estimate

Borowoles:

\( \text{20' Deep: Say 6'$ $\text{ aug.15' Depth =} } \)
```

AK 7-31-92

 $>20', \le 50'$ Deep: Soy 6" b x ang. 38' Depth VOL = 0.00833(38) = 0.317 cy +20% for voids $\Rightarrow 0.380$ cy/note $\Rightarrow 0.380$ cy/note

>50', $\leq 100'$ Deep: say $6"b \times 75'$ Depth ong. VOL = (0.00833)(75) = 0.6754 + 70% for unids $\Rightarrow 0.754 / \text{hole}$ $\Rightarrow 520.75 / \text{note}$

>100', ≤ 150'Deep: say 6" & x 125' Depth ang.

VOL . = 0.00833 (125) = 1.047 cy + 20% for coss

⇒ 1.25 cy/holo

⇒ \$33,25 / hole

> 150' Deep, Poison Conyon: 18" we 12" pour

Temp. Bridge | Concrete @ 50' Deep;

(TT T.02) (10) = 0.35 ay conc.

(3 250 = \$87.50

Bridge: \$15.00

[nest Sand | granes & Soil (0.035 ay/nx) 50 = 1.75 ay

\Rightarrow \$45.75

Bentomik 2VLF (0.035 C1) 27 CF) = 1.89 Cy \Rightarrow 3 Bays @ \$10 = \$30

TOT. \$ = \$178.25 USE \$180.00

>150' Deep, Mess Montoñosa 13" $\phi \times 200'D$ 100. = $\left[\frac{13}{12}\right]^2 \sqrt{1.15} / 200$ = 7.85 α y + 20% for α $\Rightarrow 9.42 \alpha$ y $\Rightarrow 257.50 / \text{twole}$ The use conc. plng.

Exu. $\Rightarrow 200$ Conc. $(0.0393 \alpha y / v.c)(0) = 0.39 \alpha y$ $\Rightarrow 300$

= 370 Bridge \$15 Soil till, use \$10 \$123 102 \$125

Access ID No. 17960

	JAK
Quentity Takeoff	7-31-92
Seeding:	
Shelts: 900 + 900 + 300 + 400 + 900	
Seeding: Shafts: 900 + 900 + 400 + 400 + 900 4 April 8	+300 = 8900 12
	= 0.20 Ac.
Boulalis: Access roads, etc. say 0.75Ac.	0.75 Hz.
Borrow Areas : Sony	1.0 Ac.
Nine Wask Piles: Suy	0,25 Ac.
Mise:	0.25 Ac
	2.45 M .
	use 2.50Ac.
	The state of the s

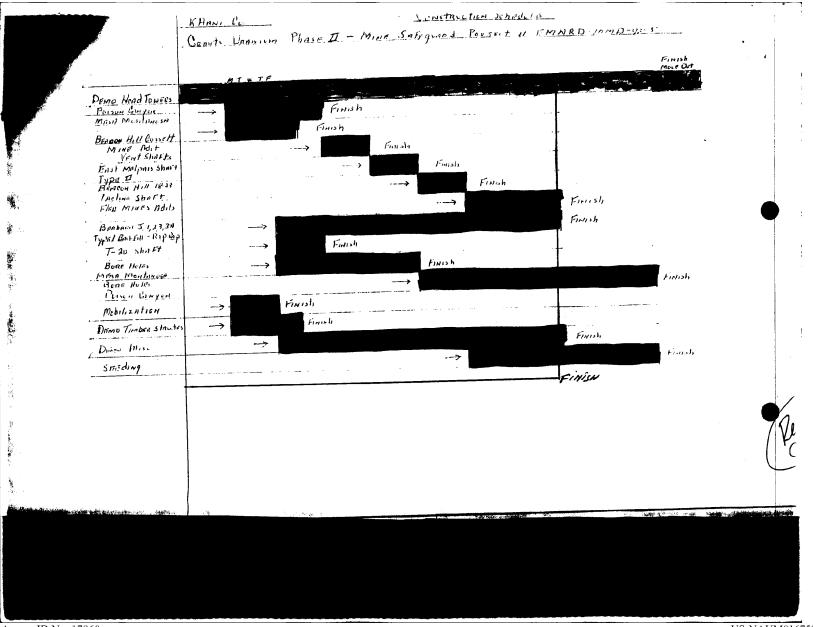
Grants I 7-23-92 JAK Field Notes Barbara J#Z, Shoff West vent: 15" \$ x 13'D Depth: 228 Per. Fishing Rod. 182 Tape 181' Water Lavel (Nater level Indicator) Bondona J#1 Sheff
Depth: # Pev. Fishing Rad
203' Tage dry Boubara J# 3 Shaft closydat 145'Level Depth: >300' Tape wet @~ 250' Stoudpipe: 31"O.D. X 16' High. Broke Water Level Indicator lord @ ~40' when Cause on something; in prose 10st Rod (7-24-92): 687 Rov. (= 510' deep) Barbara J# 3A Vent Shaft With tape with @ ~ 255' down. Mesa Topo, bounde by road 12" x 24'd+) 4'D x 5'd to bottom of larger hale &

Access ID No. 17960

Down hole come Bonbara J#3# 7-23-92 3-A | blue tape-bottom of casing / rock beloo (concert?) Top of casing . 3.9' alone ground . ; vock at ~52' below ground Bowsara J#Z @ 152' peanling, except between compartments, stops as about Balana J#1 1st tage marke but him below ~ 10' below some collapsed forms 58' 2nd tape vook? behave lagging / collapsed firebeas 61 3d topinore rock below / shoulde? ventilation from / rock Pagging separation between 10's blow sone. Nic. 10 blow look with well apple belong lagging generally good conc. ribs 2 5'0, C. ended ~25' from bottom

7-24-92

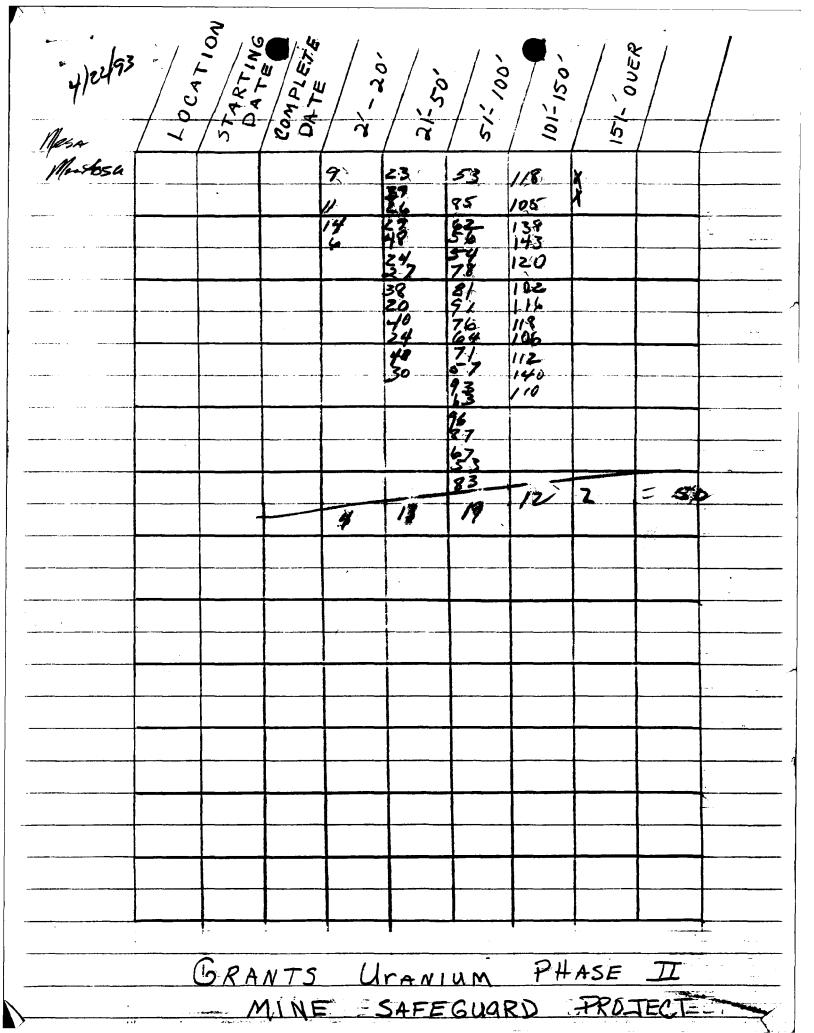
T-20 boreholen, west side 2 failures of packfill out of 11 I not backfilled Shaff, other side of road Rom: O " 18 Tristan: 0 T-20 shaft: 4'x9' x 10' deep subsidence wideway to How

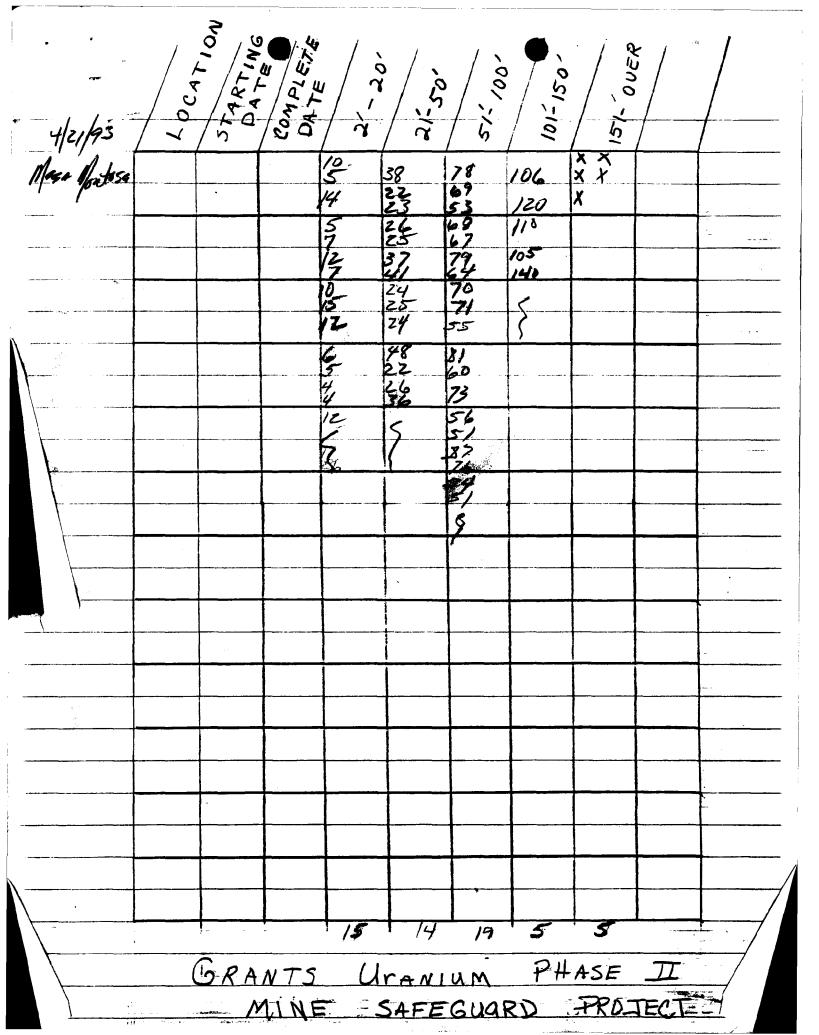


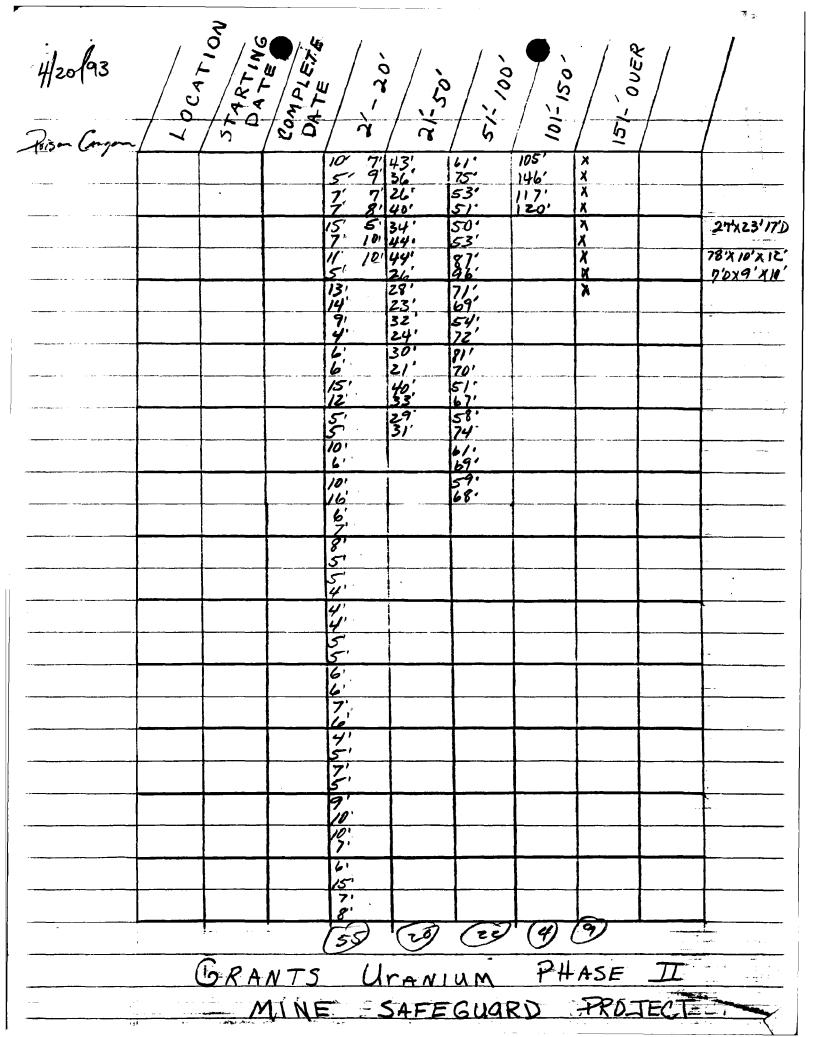
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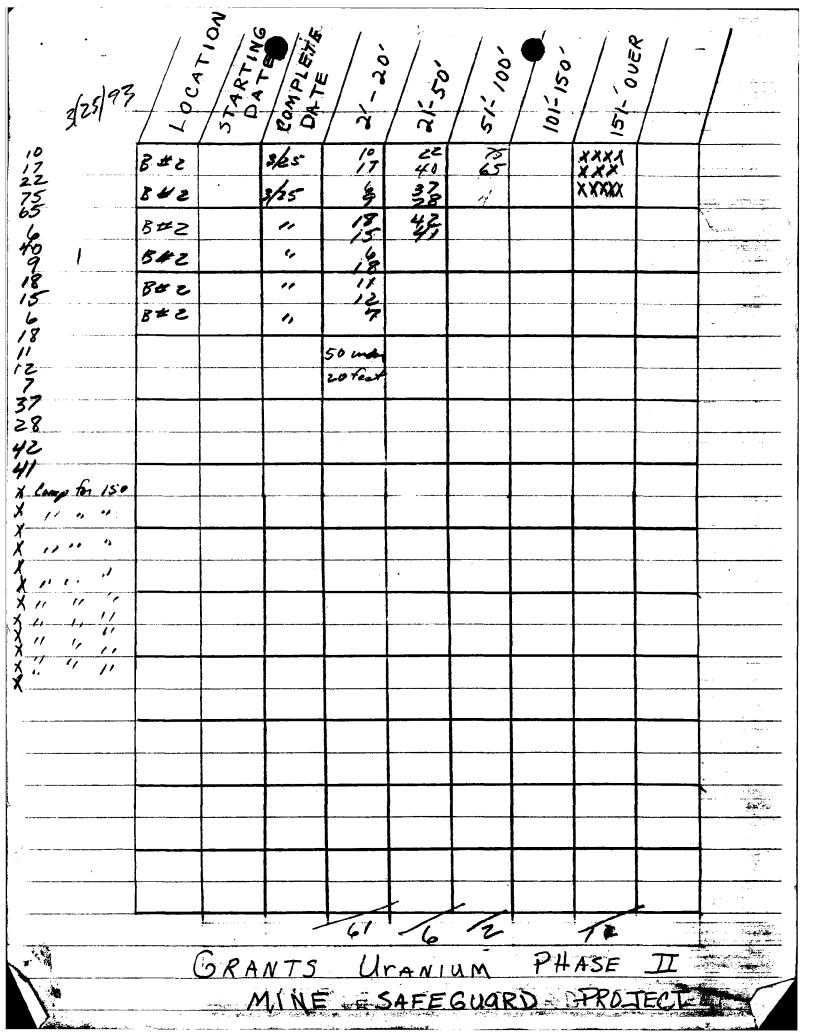
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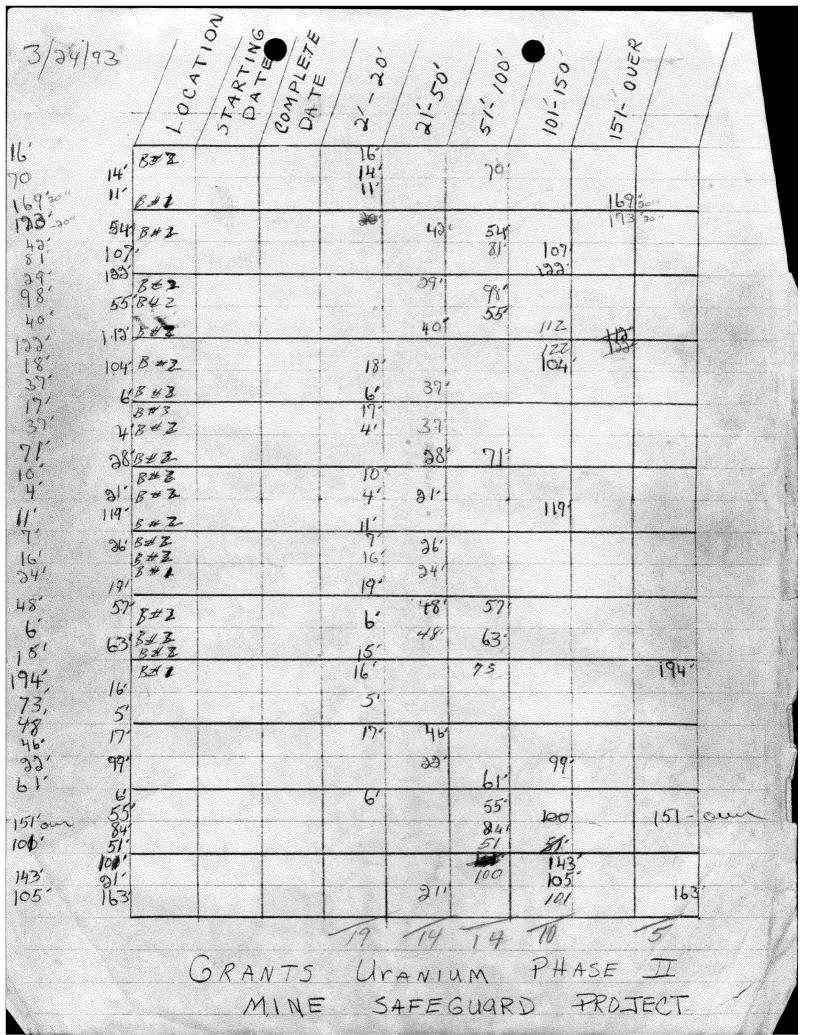
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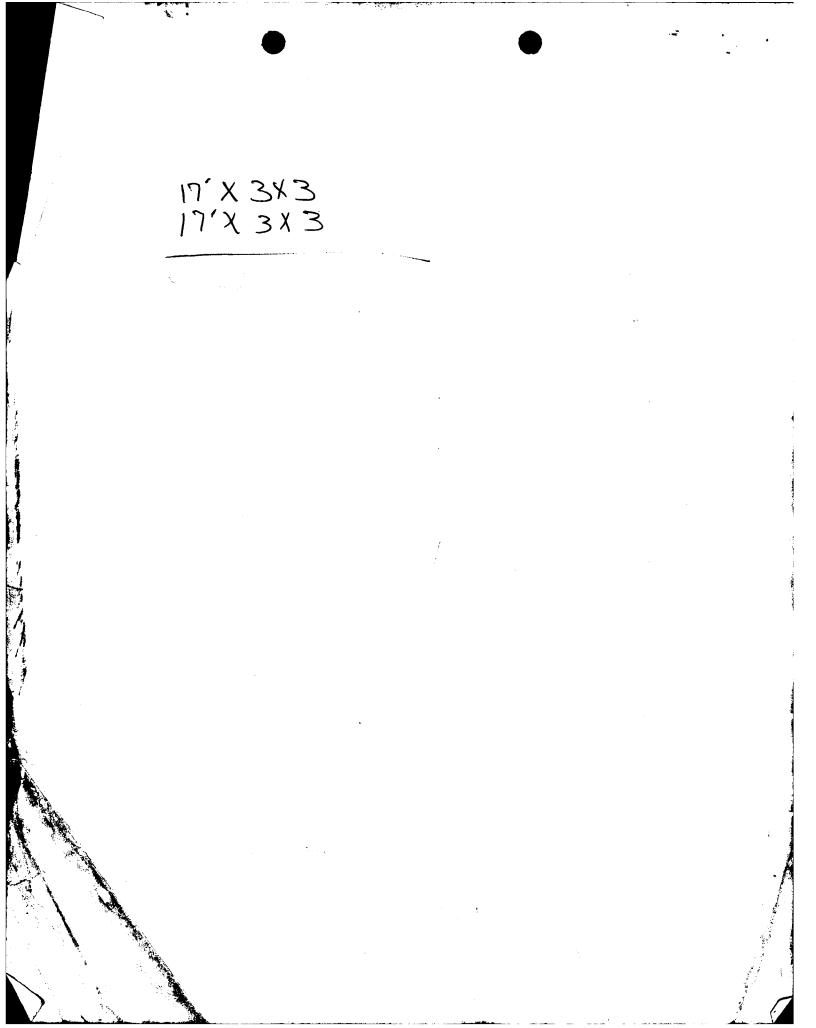












Access ID No. 17960

US-NAUM0167591

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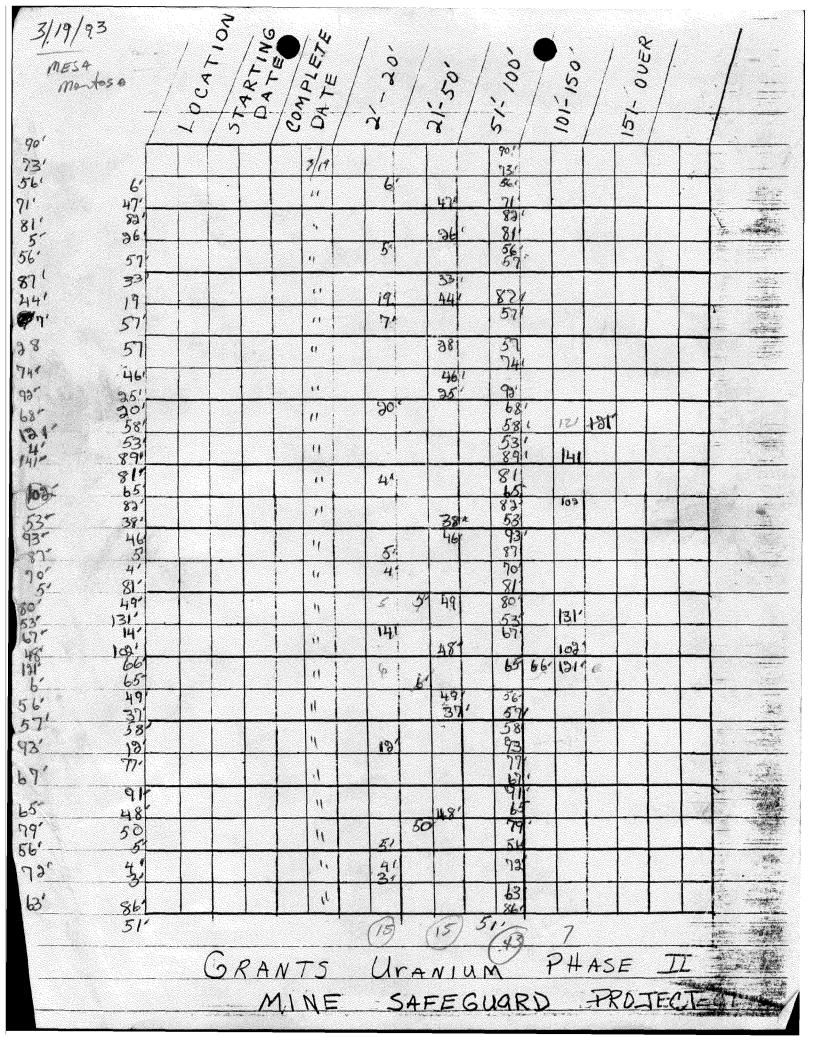
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173-6-61		17'	37	8/		194'		
42-55-151	<u> </u>	4.	37	98'	1/2'	151'		
81-84-101		4%	28'	551	122'	163'		
29-51-143		7'	2/	2/	104'	- Company		
98-101-105		16',	24		1191			
40-21-14		6'	148'	57'	99'			
122-163-11		15'	48'		/43′			
18 54		16'	46'	63'	105'			
37 107		5'	22'	73'	101'			
17 122		17'	2/	61				
37 55		6'		55'				
7/ 1/2				84'				
10 104				5/				
4 6				100'				
1/								
7 28								Sections
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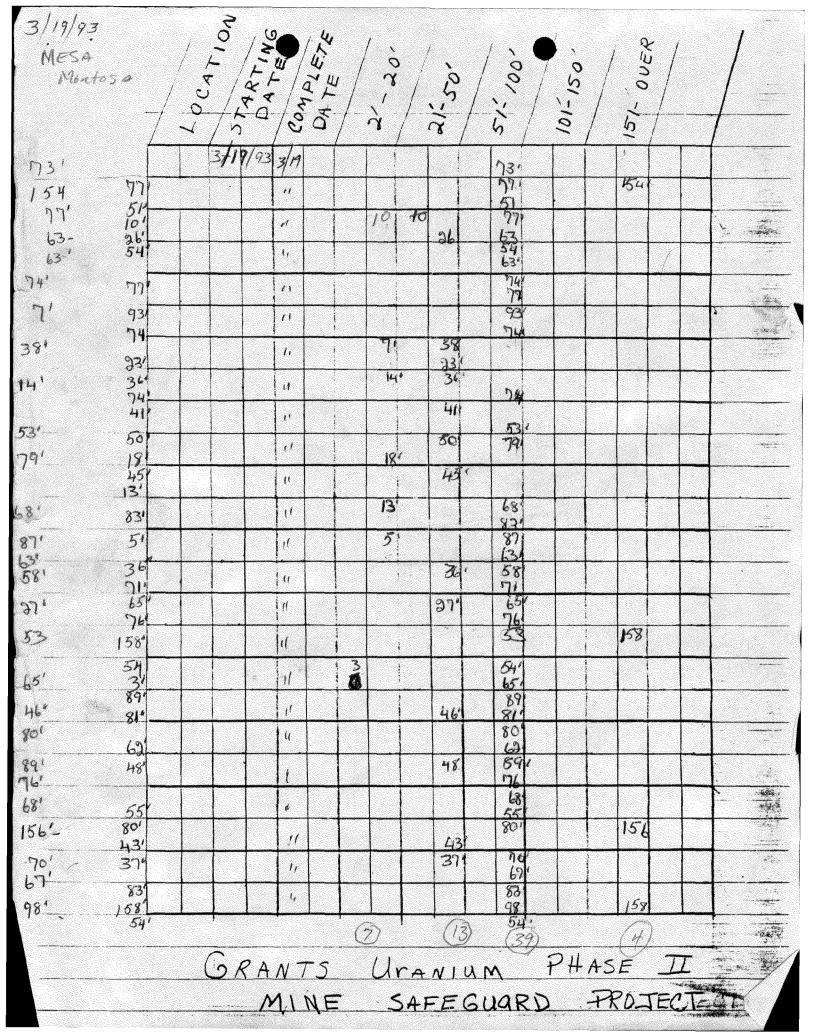
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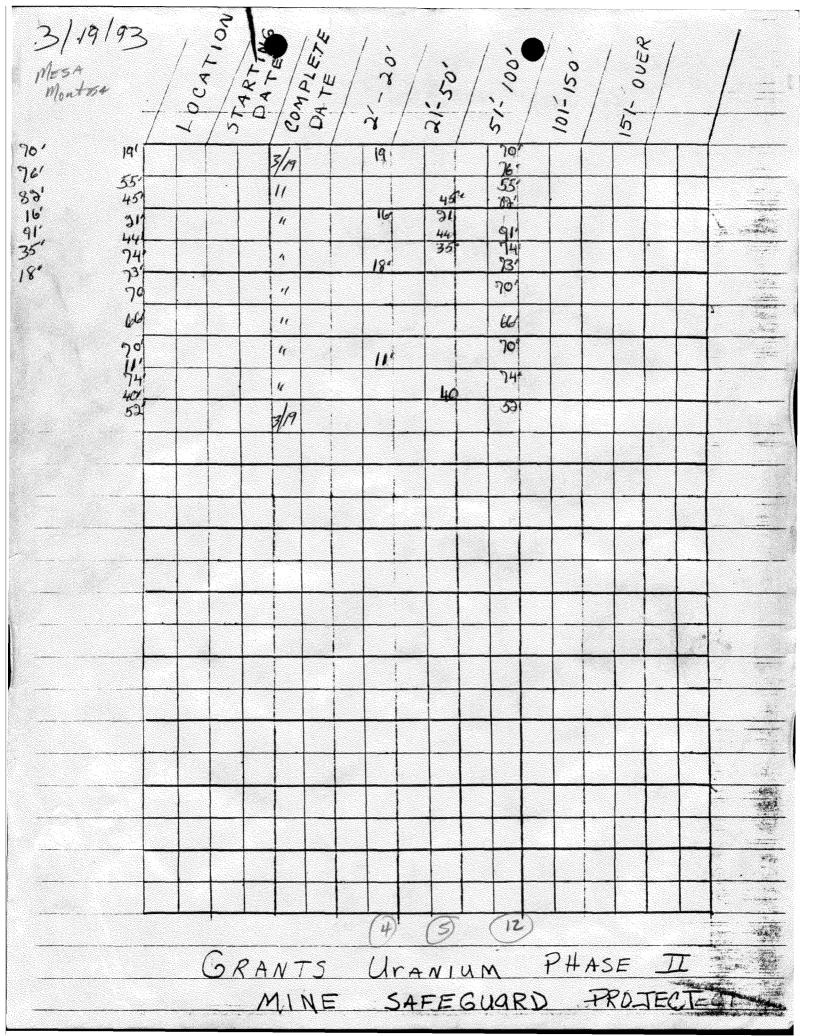
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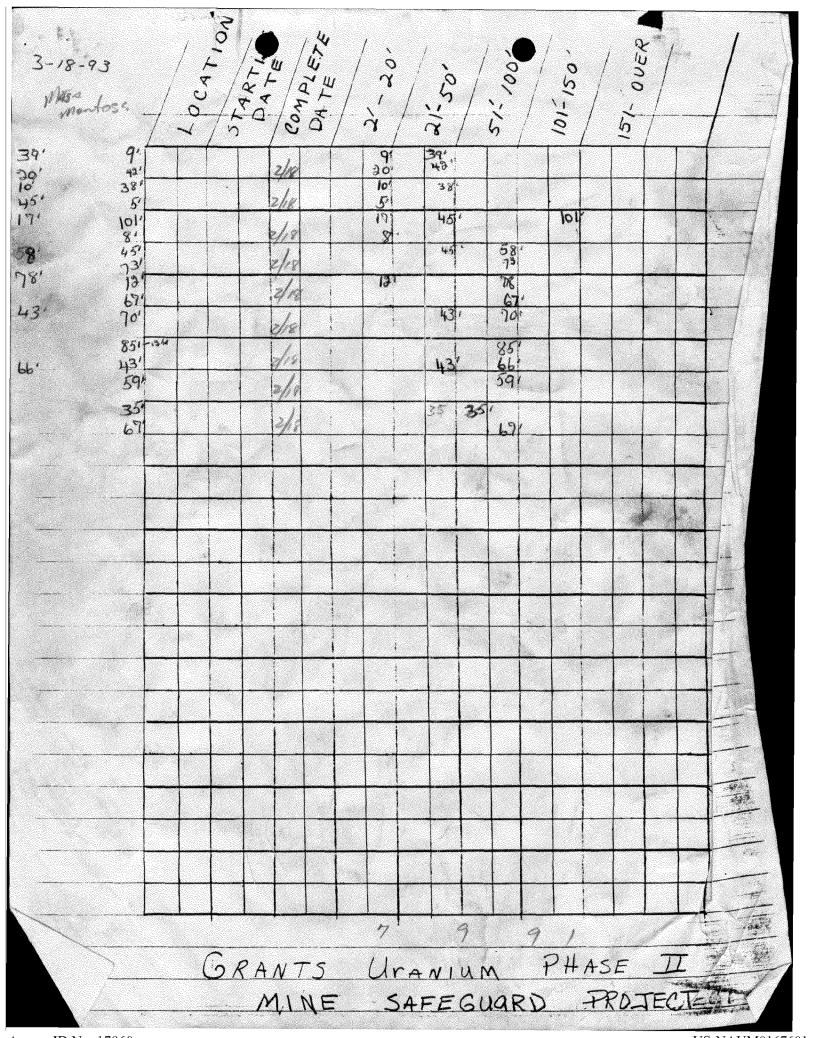
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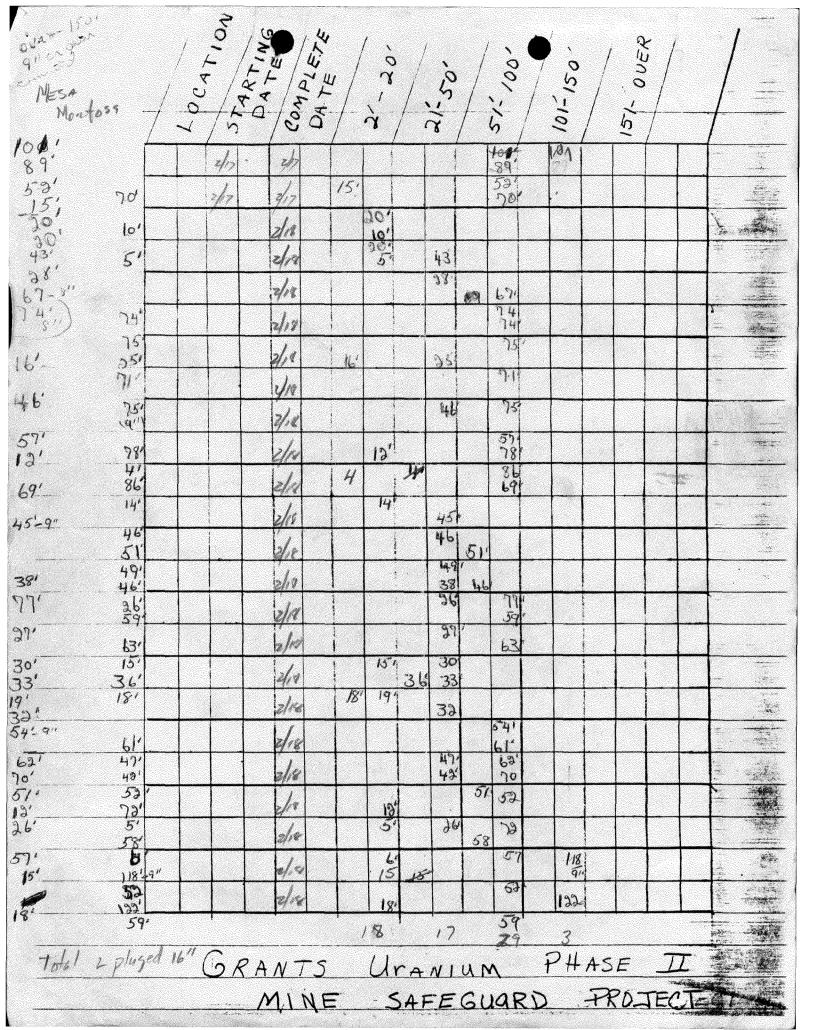
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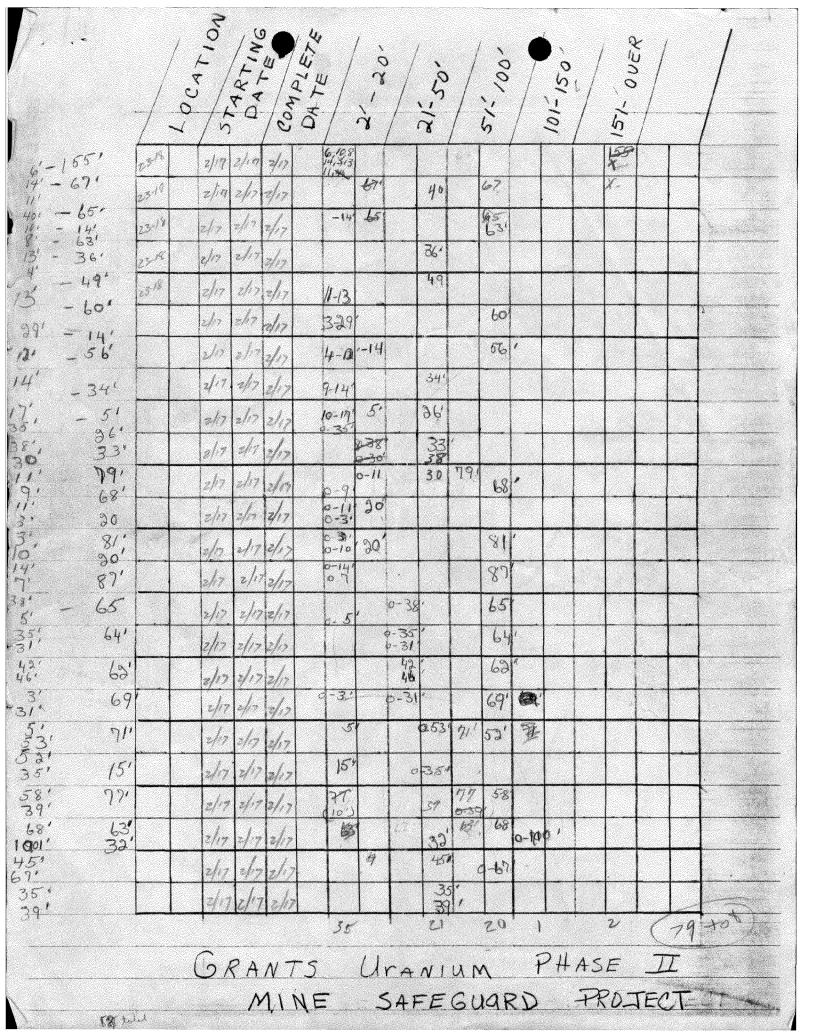












State of New Mexico ENERGY, MITTERALS and NATURAL RESOURCES DEARTMENT Santa Fe. New Mexico 87505



BRUCE KING GOVERNOR March 10, 1993



ANITA LOCKWOOD CABINET SECRETARY

Naser Alikhani, President Khani Company 13816 Winterwood Way SE Albuquerque, New Mexico 87123

RE: EMNRD-MMD-92-5 Grants Uranium Phase II Mine Safeguard Project - SUBSTITUTION OF VINYL LINERS FOR COMPACTED IMPERVIOUS ZONES

Dear Mr. Alikhani:

We are in receipt of your letter and submittal dated March 3, 1993 regarding the substitution of vinyl liners in place of the compacted impervious zones at the decline adit and Type 2 shaft closures. Since the proposed synthetic liners can meet the design objective of minimizing the flow of surface water through the mine waste fill to prevent migration of toxic materials, I will accept vinyl liners as a substitute, without change in the lump sum contract prices for the affected mine closures. I agree with your comment that the 30 mil PVC liner is superior to the 60 mil VLDPE liner because of its elasticity, should the fill zones at the mine openings settle. We accept the 30 mil PVC liner by Environmental Liners, Inc. with the following provisions:

- a. Not only the soil cover over the liners, but also the uppermost layers of the mine waste shall be equipment compacted in maximum six-inch lifts to form a solid support for the liners.
- b. The mine waste shall be mounded to one foot above natural ground or the top of the shafts to allow for some settlement of the fill.
- c. The material immediately below and above the liners shall be free of gravel and rocks larger than 1½ inches to protect the liner from puncture. All rocks larger than three inches shall be removed from the material placed within six inches of the liners.

VILLAGRA BUILDING - 408 Galisteo

Forestry and Resources Conservation Division P.O. Box 1948 87504-1948 827-5830

Park and Recreation Division P.O. Box 1147 87504-1147 827-7465 2040 South Pacheco

Office of the Secretary 827-5950

Administrative Services 827-5925

Energy Conservation & Management 827-5900 Mining and Minerals 827-5970 LAND OFFICE BUILDING - 310 Old Santa Fe Trail

Oil Conservation Division P.O. Box 2088 87504-2088 827-5800 Mr. Naser Alikhani March 10, 1993 Page 2

- d. The edges of the liner sheets shall be turned down a minimum of 12 vertical inches into trenches or keys around the perimeter of the shafts and adits, so that water is shed off to the sides of the backfilled mine openings. At some locations this may necessitate excavation into shallow bedrock.
- e. The manufacturer recommended to me that the maximum slope to prevent the soil cover from sliding off the liners at adit closures was approximately 2.5h:1v. In order to minimize the potential for sliding and erosion, especially at the south Flea Mine adit, the liners and soil covers shall be placed not steeper than three horizontal to one vertical (3h:1v). This corresponds with the requirements of Section 02211 and the original Figure 13 in the Project Manual.
- f. Required liner dimensions, to meet the above requirements and those indicated in revised Figures 12 and 13, shall be field checked before fabrication of the sheets to minimize the need for field welding. Any field welding shall be done in strict accordance with manufacturer's recommendations.

Refer to the attached revised Figures 12 and 13. Also enclosed are two copies of your submittal marked "No Exceptions Noted."

Sincerely.

John A. Kretzmann, P.E.

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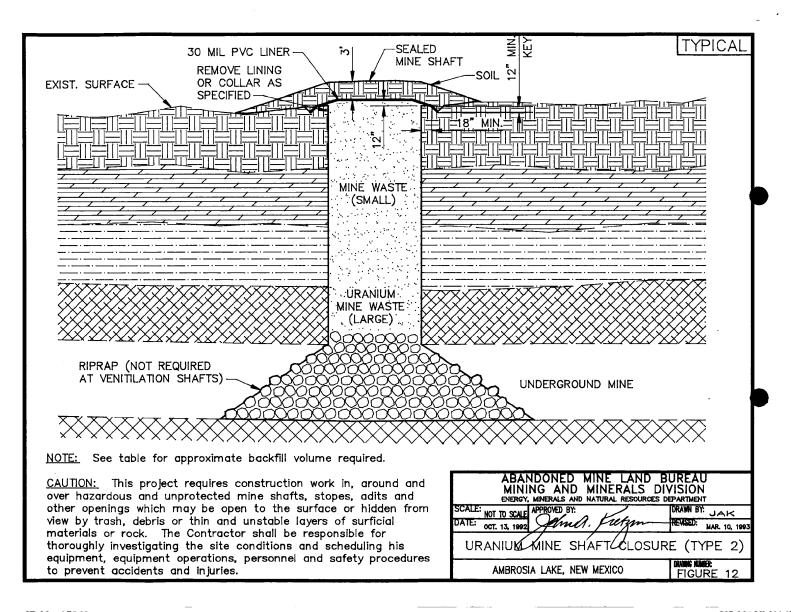
Project Engineer

Abandoned Mine Land Bureau Mining and Minerals Division

JAK:jak

Enclosures

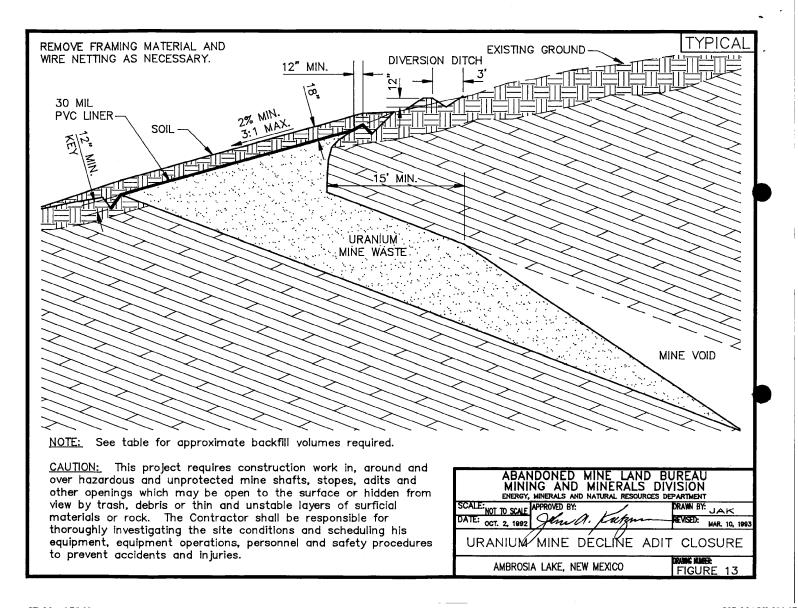
xc: Construction Reports (i), w/ enclosures
Robert M. Evetts, Program Manager, w/ enclosures
Raymond Rodarte, Project Manager, w/ enclosures



Access ID No. 17960

US-NAUM0167606

US-NAUM0167523-00084



Access ID No. 17960

US-NAUM0167607 US-NAUM0167523-00085



GENERAL CONTRACTOR

License No. #031999

March 3, 1993

Mr. John A. Kretzmann, P.E. Project Engineer Mining and Minerals Division 2040 South Pacheco Street Santa Fe, New Mexico 87505-5472

EMNRD-MMD-92-5 Grants Uranium Phase II

Dear John:

We are in receipt of your letter dated February 23, 1993, and are responding herein according to your comments commencing with subparagraph "a".

- We agree; good compaction will be achieved by the use of heavy equipment track walking the material in 6" lifts.
- We agree to one foot above natural ground or shaft top, whichever is b. higher in elevation.
- We disagree to sand or gravel being placed; however, we will remove all c. rocks in the bottom and top layer. No rock will be placed directly under or on top exceeding 1½" in diameter. Hand picking of large rocks will take place prior to the bottom layer and again after the first 6" of the top layer is placed. We agree that our concern is not to puncture the membrane. No manufacturer recommendations are known.
- d. We agree; however, we cannot blast or rip the rock. We do believe that our large backhoe can make the trench as needed.
- We disagree as reinforced liner material of either type has any give to It will not stretch; it will tear first.
- f. We disagree;; a one-foot recommendation into rock or dirt is sufficient with two to three feet of fill over the keyed depth.
- No recommendation is known; however, if the keyed ditch is filled over by two to three feet of material, it will stay in place.
- We accept your dimensions; however, we must have the material made in a continuous or solid piece here in Albuquerque so as to avoid field welds. We suggest that we meet early in the start of the project to agree as to actual dimensions that will be needed.

Since the two samples attached are two entirely different products and stretch and mounding are two primary points to be considered, we recommend the 30 mil PVC. Our cost is approximately the same for each type and you may select either kind as both products are good; however, we feel the 60 mil is too rigid and will not give nor remain intact should settlement occur. Thank you.

Sincerely,

President

Naser Alikhani Alikhani President

13816 Winterwood Way SE • Albuquerque, New Mexico 87123 • (505) 299-1000 • Mobile 1-264-1700

2009 NORTH INDUSTRIAL ROAD + CORTEZ, COLORADO 81321 + INTERSTATE 1 800 R21 0831 IN COLORADO (303) 565-9540 + 565 4221 - TITL CUPIER (303) 565-8644

PVC GEOMEMBRANE SPECIFICATION GUYDE ENGINEERING SPECIFICATION

				W.		10	
roperty	Test Method				d Values		
hickness mils Nominal +5%)	ASTM D-1593	10	20	30	40	50	60
pecific Gravity	ASTM D-792	1.20	1.20	1.20	1.20	1.20	1.20
potential ordinary							
inimum)							
inimum Tensile Prop. each direction)	ASTM D-882						
1. Breaking Factor	Method A or B	23	46	69	92	115	138
(lbs/in width) (PSI)	(l inch wide)	(2300)	(2300)	(2300)	(2300)	(2300)	(2300)
2. Elongation at Break (%)	Method A or B	325	325	325	350	400	450
	N . 1 1 A 21	10	20	30	36	45	54
Modulus (force) at 100% Elongation	Method A or B	10 (1000)	20 (1000)	(1000)	(900)	(900)	(900)
(lb/in width) (PSI)		(1000)	(2000)	,	(333)	(,,,,	į.
ear Resistance	ASTM D-1004	3	6	8	10	12	14
lbs, minimum)	Die C						•
ow Temperature, °C	ASTM D-1790	-23	~26	-29	-29	-29	-29
°F)		(-10)	(-15)	(-20)	(-20)	(-20)	(20)
imensional Stability	ASTM D-1204	5	5	5	5	3 5	5
each direction, %	100°C (212°F)						
change maximum)	15 min.						
ater Extraction	ASTM D-3083	-0.25	-0.25	-0.25	-0.35	-0.35	-0.35
% loss maximum)	(Ref. NSF						1.2
	Standard 54)						
olatile Loss	ASTM D-1203	1.5	0.9	0.7	0.5	0.5	0.5
% loss maximum)	Method A					•	
esistance to Soil	ASTM D-3083						
urial (% change	(Ref. NSF						
aximum in original alue)	Standard 54)						
l. Breaking Factor	*	5	5	5	5	5	5
2. Elongation at Brea		20	20	20	20	20	20
3. Modulus at 100% E1	ongation	20	20	20	20	20	20
ydrostatic Resistance	ASTM D-751	37	60	82	82	110	° 150
lbs/sq in. minimum)	Method A	-					_
•						•	

Consultants, Fabricators, and installers of Flexible Membrane Liners for Leakproof Containment.

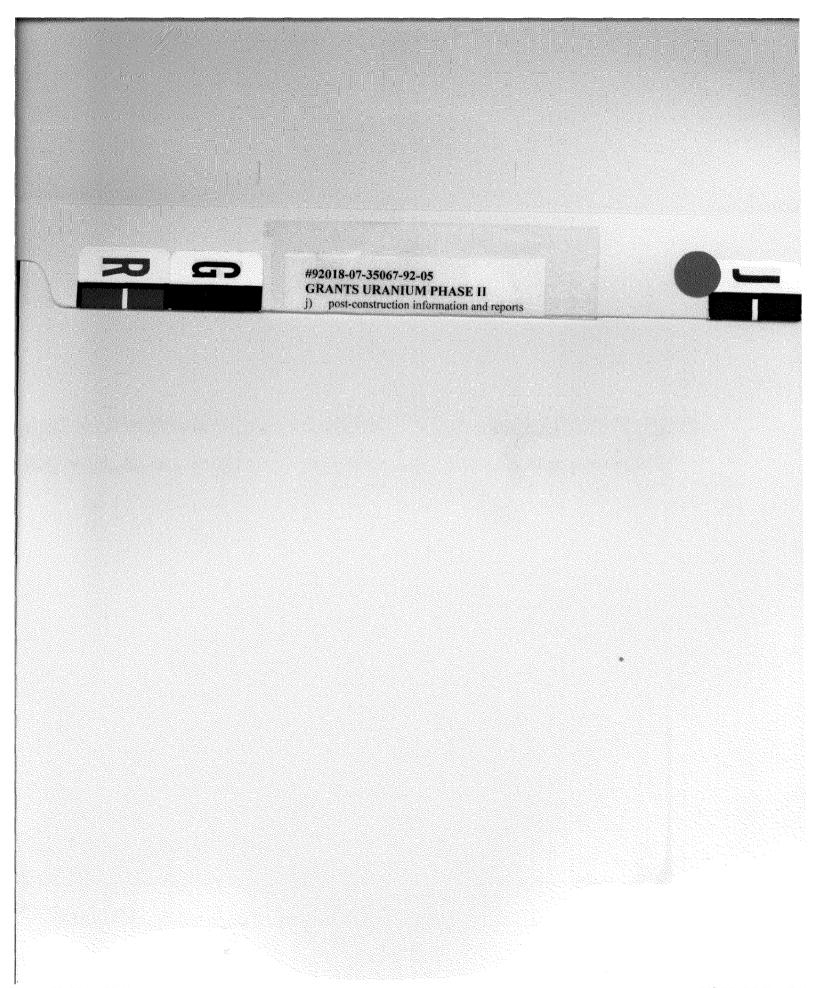
Factory Seam Requirements²

ed Seam Strength tory seam, breaking tor, ppi width)	ASTM D-3083 (Ref. NSF Standard 54)	18.4	36.8	55.2	74	92	110
Adhesion /in minimum)	ASTM D-413 (Ref. NSF Standard 54)	10	10	10	10	10	10
stance to Soil al (% change mum in original e)	ASTM D-3083 (Ref. NSF Standard 54)						
el Adhesion		-20	-20	-20	-20	-20	-20
nded Seam Strength		-20	-20	-20	-20	-20	-20

specification is based on minimum NSF Standard 54 values and is intended to serve design aid. We assume no liability for incorrect design or product usage. The stan-product supplied by Environmental Liners will meet or exceed these minimum values.

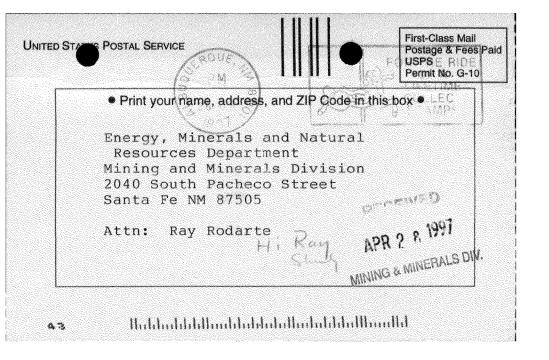
e jaw saparation method is to be used to determine elongation percent.

ctory bonded seam strength is the responsibility of the fabricator.



SENDER: Complete items 1 and/or 2 for accomplete items 3, 4a, and 4b. Print your name and address on accomplete items 3. Print your name and address on accomplete items as the form so that we card to you. Attach this form to the front of the mailpiece, or on the back if spapermit. Write 'Return Receipt Requested' on the mailpiece below the article was delivered adelivered.	ice does not cle number.	I also wish to receive the following service for an extra fee): 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee.
3. Article Addressed to:	4a. Article N	umber
Mr. Robert Lopez, Owner P.O. Box 456 Penasco NM 87553	4b. Service 1 Registere Express I	ed 🖾 Certified
5. Received By: (Print Name) Robert Lopez 6. Signature: (Addressee or Agent)	7. Date of De 8. Addressee and fee is	e's Address (Only if requested
PS Form 3811, December 1994	<u> 11357 - </u>	Domestic Return Receip

Access ID No. 17960 US-NAUM0167612



Access ID No. 17960 US-NAUM0167613

(J) GRANTS PHASE 2
Pre Construction

January 20, 2000

MEMORANDUM

To:

Grants Uranium Phase 2 Project

From:

Raymond Rodarte, Reclamation Spec. 3

Subject: Follow-up Inspection on the Grants Uranium Phase 2 Project

On January 19, 2000, I Raymond Rodarte completed a follow-up inspection for the Grants Uranium Phase 2 Project in Ambrosia Lake, New Mexico. This project was completed in May 3, 1993 and AMLB has only had 1 maintenance project out since the project was completed. Since we have had a dry winter this season I have noticed there has not been so much subsidence on shaft that have been filled or underground mine drifts. Most of the shafts and adits were inspected and they showed no subsidence or erosion. The Piedra Triste Mine area is beginning to look better as native weeds and grasses cover the unseeded ground material that was used to backfill this large mine. I recommend that we use some of the salvaged seed from past projects in the Piedra Triste area. I will be asking the Rancher if he could spread the seed if we can supply the materials for this coming June season, if he refuses then we might need to higher a Contractor.

The subsidence near the road driving up to Haystack has been filled up again by the Mckinley County Road Department for the second time in one year. This subsidence resulted from an underground mine drift or an exploration drill hole.

Mr. Marquez has approximately 50 head of cattle grazing on this property and has mentioned that he would appreciate that we seed the disturbed areas that have been backfilled from the last 2 project.

APPLICATION FOR PAYMENT

FLAT TOP MAINTENANCE PROJECT San Matco____, New Mexico EMNRD-MMD- 97-521.06-071

	21.11	Billing No.	Billin	0 Date 4/18/	/97 Ton	minate Jage	36, 1997		
	sct No. 96-6 Contractor	7.			•	UNITS	AMOUNTS		
Billing	represents work completed through (dete)	197	CONTRACT	UNITS THIS	AMOUNTS	PREVIOUS	PREVIOUS	UNITS BILLINGS	AMOUNTS REMAINING
ITEM NO BEN	MATERIAL OR WORK DESCRIPTION	ESTIMATED QUANTITY	CONTINUE	AMQUNI	BILLING	RH LING			
1.	Mobilization & Demolition (not to exceed 10% of total bid)	For the lump sum of	\$250.00			:			
	Mine Backfilling 400 cu. Yds.	For the lump sum of	\$ 2,500.00.						
2, Mi	Mine Backriting 400 cu. 1007	Subtotal	\$.2.750.0Q.						
3.	GROSS RECEIPTS TAX = LOCAL RATE (5.75	% through 12-31-961 x Subtotal	\$158 . 12.		1				
3.	TOTAL CON		9_2.908.12		<i>y</i> :				
CEI I do	RIFICATION Is hereby certify that the work described herein has Mining and Minerals Division Director	been performed and that no pra	Ву: Д	Contractor	Office	tament, as shov	vn above, has be By:_ Date	AML PI	oject Manager
Da	Mining and Mining as Civilian 18: Capul 28, 1997		Date:	4-//-	!		0811		

Access ID No. 17960

US-NAUM0167615

US-NAUM0167523-00093



MINING AND MINERALS DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-5970

Kathleen A. Garland DIVISION DIRECTOR

Jennifer A. Salisbury CABINET SECRETARY

April 18, 1997

MEMORANDUM

To:

Kathleen Garland, Director - MMD

From:

Raymond Rodarte, Project Manager - AML

Subject: Flat Top Maintenance Project, Project No: 97-521.06-071, First and Final Payment

On April 7, 1997 Robert Lopez (Contractor) was given notice to proceed on a Maintenance Project to be completed in San Mateo, New Mexico.

The Contractor mobilized on April 16, 1997 and completed the Flat Top Maintenance Project satisfactorily on April 17, 1997.

The total amount of backfill material used for backfilling the mine subsidence was a total of 400 cubic yards. Therefore, I recommend final payment.

Enclose is the original of the first and final application for payment totaling \$2,908.12, which includes gross receipts tax. I find the pay request to be reasonable and without mathematical error, please sign in the space provided on the application.

RRR/rrr Attachments

xc: Construction Contracts (h), w/copy of attachments Robert Evetts, w/copy of attachements



MINING AND MINERALS DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-5970

Kathleen A. Garland DIVISION DIRECTOR

Jennifer A. Salisbury CABINET SECRETARY

April 7, 1997

CERTIFIED MAIL # Z 062 024 802 RETURN RECEIPT REQUIRED

Mr. Robert Lopez, Owner P.O. Box 456 Penasco, New Mexico 87553

RE: EMNRD-MMD-96-6 FLAT TOP URANIUM MINE MAINTENANCE PROJECTS, SAN MATEO, NEW MEXICO

Dear Mr. Lopez:

This Notice to Proceed authorizes you to commence construction activities under the terms and conditions of Contract No. 97-521.06-071 for the Flat Top Uranium Mine Maintenance Projects, San Mateo, New Mexico. Upon receipt of this Notice, you shall mobilize to the project site and commence work within ten (10) working days. You must obtain any necessary permits before you begin work. Enclosed is one copy of the executed contract for the project.

Sincerely,

Raymond R. Rodarte Reclamation Spec. 3

Abandoned Mine Land Bureau Mining and Minerals Division

Enclosure

cc: Construction Contracts (h)

Virginia Baca, Administrative Services Division

Robert M. Evetts, Program Manager

TO: Roy Roberts / mm DATE: 2/24/27

FROM: VIRGINIA BACA



New Mexico Energy, Minerals and Natural Resources Department

Contracts Section

2040 So. Pacheco Street Santa Fe, N.M. 87505 827-1369 *5901*

FOR YOUR APPROVAL, SIGNATURE AND RETURN.
FOR YOUR INITIAL APPROVAL AND SIGNATURE.
FOR YOUR FINAL APPROVAL AND SIGNATURE.
ATTACHED CONTRACT IS READY FOR CONTRACTOR'S SIGNATURE AND TAXATION & REVENUE, IF APPLICABLE.
ATTACHED IS/ARE THE APPROVED DFA ENCUMBRANCE DOCUMENT(S) FOR YOUR
FILE(S) CSC 97.527.06-077
SEND ONE TO THE CONTRACTOR(S) AND ISSUE THE NOTICE TO PROCEED AND THE OTHER COPY IS (COPIES ARE) FOR YOUR PROJECT FILE(S).
REMARKS:
Please send me a copy of these
to Proced you send to Contractor
Jeach Jone

STATE OF NEW MEXTO GENERAL SERVICES DEPARTMENT PURCHASING DIVISION

Page 2

CONTRACT

ARTICLE I - STATEMENT OF WORK

Contract to provide services as indicated in specifications.

ARTICLE II - TERM

The term of this Contract will be as indicated in specifications

ARTICLE III - TERMINATION

This Contract may be terminated by either signing party upon written notice by either party to the other at least thirty (30) days in advance of the date of termination. Termination of this contract, however, shall not affect any outstanding orders.

ARTICLE IV - AMENDMENT

This Contract may be amended by mutual agreement of the NM State Purchasing Agent and the contractor upon written notice by either party to the other. An amendment to this Contract SHALL NOT AFFECT ANY OUTSTANDING ORDERS issued prior to the effective date of the amendment as mutually agreed upon, and as published by the NM State Purchasing Agent. Amendments affecting price adjustments and/or extension of contract expiration are not allowed unless specifically provided for in bid and contract documents.

ARTICLE V - PRICE SCHEDULE

Price(s) as listed are firm.

ARTICLE VI - INDEMNITY CLAUSE

Contractor shall indemnify and hold harmless the State, its officers and employees, against liability, claims, damages, losses or expenses arising out of bodily injury to persons or damage to property caused by, or resulting from contractor's and/or its employees, own negligent act(s) or omissions(s) while contractor, and/or its employees, perform(s) or fails to perform its obligations and duties under the terms and conditions of this agreement. This save harmless and indemnification clause is subject to the immunities, provisions, and limitations of the tort claims act (41-4-1, et seq., N.M.S.A. 1978 comp.) and section 57-7-1 N.M.S.A. 1978 comp. and any amendments thereto.

It is specifically agreed between the parties executing this agreement that it is not intended by any of the provisions of any part of the agreement to create the public or any member thereof a third party beneficiary or to authorize anyone not a party to the agreement to maintain a sun(s) for wrongful death(s) bodily and/or personal injury(ies) to person(s), damage(s) to property(ies) and/or any other claims(s) whatsoever pursuant to the provisions of this agreement.

Vendor shall provide all insurance necessary to employees on the work site, including but not limited to workman's compensation.

STATE OF NEW MEXICO GENERAL SERVICES DEPARTMENT PURCHASING DIVISION

70-521-06-05527 PAGE 3

ARTICLE UNIT * TOTAL AND DESCRIPTION PRICE * PRICE ****************** 0001 1.0 JOB CONSTRUCTION MAINTENACE ON THE GRANTS PHASE II PROJECT PER ATTACHED CONTRACT 2,908.120000 (1) *** 1 ITEM(S), 1 AWARDED

STATE OF NEW MEXICO GENERAL SERVICES DEFARTM

CONTRACT VENDOR(S)

************ CONTRACT

CONSTRUCTION MAINTENANCE , GRANTS PHASE II PROJECT

(1)-5387537 ROBERT LOPEZ EXCAVATING PO BOX 456

CONTRACT NO: 70-521-06-05527

COMMODITY

05403 05411

CODE(S):

PENASCO

TAX-ID NUMBER:

NM 87553-0000

BUYER: RAMON MONTOYA

(505) 827-0487

SEALED BID OPENING * CONTRACT STATE FURCHASING AGENT'S OFFICE

DATE: 00/00/00 *****

PAYMENT TERMS: NET 30 DAYS

FOB:

JOBSITE

DELIVERY: WITHIN 25 DAYS ARO

SHIP TO:

ENERGY, MINERALS AND NATURAL

RESOURCES DEFT. 2040 S. PACHECO

SANTA FE

NM 87503-0000

THIS CONTRACT IS MADE SUBJECT TO THE TERMS AND CONDITIONS SHOWN ON THE REVERSE SIDE OF THIS PAGE.

INVOICE/BILL TO: SAME AS SHIP TO

00000-0000

THE TERM OF THIS CONTRACT SHALL BE FEB 17, 1997 THRU JUN 30, 1997.

CONTACT PERSON FOR DELIVERY INSTRUCTIONS OF ITEM(S) ON THIS

CONTRACT:

VIRGINIA BACA 505-827-5901

ACCEPTED FOR THE STATE OF NEW MEXICO

MEXICO STATE PURCHASING AGENT

DATE: 02/06/97

PURCHASING DIVISION JOSEPH MONTOYA BLDG, RM. 2016 1100 ST. FRANCIS DR. 87505 P.O. BOX 26110

SANTA FE, NEW MEXICO 87502-0110

TERMS AND CONDITIONS UNLESS OTHERWISE SPECIFIED

- GENERAL: When the State Purchasing Agent issues a purchase document in response to the Vendor's 8id a binding contract is created.
- 2. VARIATION IN QUALITY: No variation in the quantity of any item called for by this order will be accepted unless such variation has been caused by conditions of loading, shipping, packing or allowances in manufacturing process, and then only to the extent, if any, specified elsewhere in this order.

3. ASSIGNMENT:

- A. Neither the order, nor any interest therein, nor claim thereunder, shall be assigned or transferred by the Vendor, except as set forth in subparagraph 3B below or as expressly authorized in writing by the STATE PURCHASING AGENT'S OFFICE. No such assignment or transfer shall relieve the Vendor from the obligations and liabilities under this order.
- B. Vendor agrees that any and all claims for overcharge resulting from antitrust violations which are borne by the State as to goods, services, and materials purchased in connection with this bid are hereby assigned to the State.
- 4. STATE FURNISHED PROPERTY: State furnished property shall be returned to the State upon request in the same condition as received except for ordinary wear, tear and modifications ordered hereunder.
- 5. DISCOUNTS: Prompt payment discounts will not be considered in computing the low bid. Discounts for payment within 20 days will be considered after the award of the contract. Discounted time will be computed from the sate of receipt of the merchandise or invoice, whichever is later.
- 6. INSPECTION Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for non-conformance with specifications shall be removed, at the Vendor's risk and expense, promptly after notice of rejection.
- 7. INSPECTION OF PLANT: The State Purchasing Agent may inspect, at any reasonable time, the part of the contractors, or any subcontractors plant or place or business, which is related to the performance of this contract.
- 8. COMMERCIAL WARRANTY: The Vendor agrees that the supplies or services furnished under this order shall be covered by the most favorable commercial warranties the Vendor gives to any customer for such supplies or services, and that the rights and remedies provided herein shall extend to the State and are in addition to and do not limit any rights afforded to the State by any other clause of this order. Vendor agrees not to disclaim warranties of fitness for a particular purpose or merchantability.
- 9. TAXES: The unit price shall exclude all State taxes.

10. PACKING, SHIPPING AND INVOICING:

- A. The State's purchase document number and the Vendor's name, user's name and location shall be shown on each pacing and delivery ticket, package, bill of lading and other correspondence in connection with the shipment. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.
- B. The Vendor's invoice shall be submitted in triplicate, duly certified and shall contain the following information: order number, description of supplies or services, quantities, unit prices and extended totals. Separate invoices shall be rendered for each and every complete shipment.
- C. Invoice must be submitted to the using agency and NOT THE STATE PURCHASING AGENT.
- 11. DEFAULT: The State reserves the right to cancel all or any part of this order without cost to the State, if the Vendor fails to meet the provisions o this order and, except as other wise provided herein, to hold the Vendor liable for any excess cost occasioned by the State due to the Vendor's default. The Vendor shall not be liable for any excess costs if failure to perform the order arises out of causes beyond the control and without the fault or negligence of the Vendor, such causes include, but not restricted to, acts of God or of the public enemy, acts o the State or of the Federal Government, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather and defaults of subcontractors due to any of the above, unless the State shall determine that the supplies or services to be furnished by the subcontractor were obtainable form other sources in sufficient time to permit the Vendor to meet the required delivery schedule. The rights and remedies of the State provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.
- 12. NON-COLLUSION: In signing this bid, the Vendor certifies he/she has not, either directly or indirectly, entered into action in restraint of free competitive bidding in connection with this proposal submitted to the State Purchasing Agent.
- 13. NON-DISCRIMINATION: Vendors doing business with the State of New Mexico must be in compliance with the Federal Civil Rights Act of 1964 and Title VII of that Act, Rev., 1979.
- 14 THE PROCUREMENT CODE: Sections 13-1-28 through 13-1-199 NMSA 1978, imposes civil and criminal penalties for its violation. In addition, the New Mexico criminal statues impose felory penalties for bribes, gratuities and kickbacks.
- 15. All bid items are to be NEW and of most current production, unless otherwise specified.

STATE OF NEW MEXICE GENERAL SERVICES DEPARTMENT PURCHASING DIVISION

Page 2

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Price(s) as listed are firm.

ARTICLE VI - INDEMNITY CLAUSE

Contractor shall indemnify and hold harmless the State, its officers and employees, against liability, claims, damages, losses or expenses arising out of bodily injury to persons or damage to property caused by, or resulting from, contractor's and/or its employees, own negligent act(s) or omissions(s) while contractor, and/or its employees, perform(s) or fails to perform its obligations and duties under the terms and conditions of this agreement. This save harmless and indemnification clause is subject to the immunities, provisions, and limitations of the tort claims act (41-4-1, et seq., N.M.S.A. 1978 comp.) and section 57-7-1 N.M.S.A. 1978 comp. and any amendments thereto.

It is specifically agreed between the parties executing this agreement that it is not intended by any of the provisions of any part of the agreement to create the public or any member thereof a third party beneficiary or to authorize anyone not a party to the agreement to maintain a suit(s) for wrongful death(s) bodily and/or personal injury(ies) to person(s), damage(s) to property(ies) and/or any other claims(s) whatsoever pursuant to the provisions of this agreement.

Vendor shall provide all insurance necessary to employees on the work site, including but not limited to workman's compensation.

STATE OF NEW MEXICO GENERAL SERVICES DEPARTMENT PURCHASING DIVISION

70-521-06-05527 PAGE 3

1 ITEM(S),

1 AWARDED

STATE OF NEW MEXICO ENERAL SERVICES DEFARTMEN

CONTRACT VENDOR(S)

************* CONTRACT

05403 05411

CONSTRUCTION MAINTENANCE, GRANTS PHASE II PROJECT

CONTRACT NO: 70-521-06-05527

1)-5387537 ROBERT LOPEZ EXCAVATING PO BOX 456

NM 87553-0000

TAX-ID NUMBER:

BUYER: RAMON MONTOYA (505) 827-0487

SEALED BID OPENING * CONTRACT STATE FURCHASING AGENT'S OFFICE

DATE: 00/00/00 *****

COMMODITY

CODE(S):

PAYMENT TERMS: NET 30 DAYS

JOBSITE

PENASCO

DELIVERY: WITHIN 25 DAYS ARO

SHIP TO: ENERGY, MINERALS AND NATURAL

RESOURCES DEPT. 2040 S. PACHECO

SANTA FE

NM 87503-0000

THIS CONTRACT IS MADE SUBJECT TO THE TERMS AND CONDITIONS SHOWN ON THE REVERSE SIDE OF THIS PAGE.

INVOICE/BILL TO: SAME AS SHIP TO

00000-0000

THE TERM OF THIS CONTRACT SHALL BE FEB 17, 1997 THRU JUN 30, 1997.

CONTACT PERSON FOR DELIVERY INSTRUCTIONS OF ITEM(S) ON THIS

CONTRACT:

VIRGINIA BACA 505-827-5901

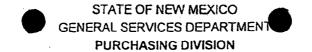
ACCEPTED FOR THE STATE OF NEW MEXICO

NEW MEXICO STATE PURCHASING AGENT

DATE: 02/06/97

FURCHASING DIVISION JOSEPH MONTOYA BLDG, RM. 2016 1100 ST. FRANCIS DR. 87505

P.O. BOX 26110 SANTA FE, NEW MEXICO 87502-0110



TERMS AND CONDITIONS UNLESS OTHERWISE SPECIFIED

- GENERAL: When the State Purchasing Agent issues a purchase document in response to the Vendor's Bid a binding contract is created.
- 2. VARIATION IN QUALITY: No variation in the quantity of any item called for by this order will be accepted unless such variation has been caused by conditions of loading, shipping, packing or allowances in manufacturing process, and then only to the extent, if any, specified elsewhere in this order.

3. ASSIGNMENT:

- A. Neither the order, nor any interest therein, nor claim thereunder, shall be assigned or transferred by the Vendor, except as set forth in subparagraph 3B below or as expressly authorized in writing by the STATE PURCHASING AGENTS OFFICE. No such assignment or transfer shall relieve the Vendor from the obligations and liabilities under this order.
- B. Vendor agrees that any and all claims for overcharge resulting from antitrust violations which are borne by the State as to goods, services, and materials purchased in connection with this bid are hereby assigned to the State.
- 4. STATE FURNISHED PROPERTY: State furnished property shall be returned to the State upon request in the same condition as received except for ordinary wear, tear and modifications ordered hereunder.
- 5. DISCOUNTS: Prompt payment discounts will not be considered in computing the low bid. Discounts for payment within 20 days will be considered after the award of the contract. Discounted time will be computed from the sate of receipt of the merchandise or invoice, whichever is later.
- 6. INSPECTION Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for non-conformance with specifications shall be removed, at the Vendor's risk and expense, promptly after notice of rejection.
- 7. INSPECTION OF PLANT: The State Purchasing Agent may inspect, at any reasonable time, the part of the contractors, or any subcontractors plant or place or business, which is related to the performance of this contract.
- 8. COMMERCIAL WARRANTY: The Vendor agrees that the supplies or services furnished under this order shall be covered by the most favorable commercial warranties the Vendor gives to any customer for such supplies or services, and that the rights and remedies provided herein shall extend to the State and are in addition to and do not limit any rights afforded to the State by any other clause of this order. Vendor agrees not to disclaim warranties of fitness for a particular purpose or merchantability.
- 9. TAXES: The unit price shall exclude all State taxes.

10. PACKING, SHIPPING AND INVOICING:

- A. The State's purchase document number and the Vendor's name, user's name and location shall be shown on each pacing and delivery ticket, package, bill of lading and other correspondence in connection with the shipment. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.
- B. The Vendor's invoice shall be submitted in triplicate, duly certified and shall contain the following information: order number, description of supplies or services, quantities, unit prices and extended totals. Separate invoices shall be rendered for each and every complete shipment.
- C. Invoice must be submitted to the using agency and NOT THE STATE PURCHASING AGENT.
- 11. DEFAULT: The State reserves the right to cancel all or any part of this order without cost to the State, if the Vendor fails to meet the provisions o this order and, except as other wise provided herein, to hold the Vendor liable for any excess cost occasioned by the State due to the Vendor's default. The Vendor shall not be liable for any excess costs if failure to perform the order arises out of causes beyond the control and without the fault or negligence of the Vendor, such causes include, but not restricted to, acts of God or of the public enemy, acts o the State or of the Federal Government, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather and defaults of subcontractors due to any of the above, unless the State shall determine that the supplies or services to be furnished by the subcontractor were obtainable form other sources in sufficient time to permit the Vendor to meet the required delivery schedule. The rights and remedies of the State provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.
- 12. NON-COLLUSION: In signing this bid, the Vendor certifies he/she has not, either directly or indirectly, entered into action in restraint of free competitive bidding in connection with this proposal submitted to the State Purchasing Agent.
- 13. NON-DISCRIMINATION: Vendors doing business with the State of New Mexico must be in compliance with the Federal Civil Rights Act of 1964 and Title VII of that Act, Rev., 1979.
- 14 THE PROCUREMENT CODE: Sections 13-1-28 through 13-1-199 NMSA 1978, imposes civil and criminal penalties for its violation. In addition, the New Mexico criminal statues impose felory penalties for bribes, gratuities and kickbacks.
- 15. All bid items are to be NEW and of most current production, unless otherwise specified.

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Contract No. 97–521.06–071

STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT

SMALL PURCHASE CONSTRUCTION SERVICES CONTRACT

THIS AGREEMENT is made and entered into by and between the State of New Mexico Energy, Minerals, and Natural Resources Department, hereinafter referred to as "EMNRD", and Robert Lopez, hereinafter referred to as the "Contractor". Supervision and coordination of work under this Agreement shall be performed by and through the Director of the Mining and Minerals Division, hereinafter referred to as "MMD", of EMNRD.

IT IS MUTUALLY AGREED BETWEEN THE PARTIES:

I. Scope of Work.

A. The Contractor shall backfill one large subsidence feature for the Flat Top Uranium Mine Maintenance Projects, San Mateo, New Mexico. See Fig. 2

B. <u>Description</u>

The project area is located on Township 13 North, Range 9 West, SE1/4 of Section 30.

C. Access

Right of Entry through private land and Bureau of Land Management property.

D. Proposed Scope of Work

The Flat Top Mine Safeguard Maintenance Project will consist of mechanically backfilling one large subsidence hole with approximately 400 cubic yards of backfill material from nearby mine waste dumps. The area backfilled will also receive a 6 foot mound of topdressing over the final area backfilled to compensate for any additional subsidence the topdressing material is included in part of the 400 yards of backfill material.

There are two mine waste piles that will be used for backfill material. The #1 east

waste pile is approximately 1,000 feet from the subsidence hole which will be used for the first 70% of backfill material. The #2 west barrow area is approximately 2,000 feet from the subsidence and the remaining 30% of backfill material will come from this pile.

This project requires construction work around and over hazardouse mine shafts and other underground mine drifts, which may be open to the surface or hidden from view by trash, debris or thin and unstable layers of surface materials or rock. The Contractor shall be responsible for thoroughly investigating the site conditions for safety.

- E. EMNRD shall have the sole authority to approve any changes to the Scope of Work and the Specifications and to approve the Contractor's final work product.
- F. Upon receiving the written Notice to Proceed via certified mail, the Contractor shall mobilize to the site and commence work within ten (10) calendar days and complete project within 25 calendar days after site mobilization.
- G. <u>BEFORE ANY WORK IS INITIATED</u>, the Contractor shall give notice to all utility companies that provide service to the contract site and inform the utility companies of the work to be performed.

II. Compensation.

- A. The total amount of this construction contract is two thousand nine hundred and eight dollars and 18/100 cents, (\$2,908.18), which includes the amount of the accepted bid plus the appropriate New Mexico Gross Receipts Tax.
- B. The New Mexico Gross Receipts Tax levied on the amounts payable under this Agreement shall be paid by the Contractor out of the sum set forth in Paragraph II.A above.
- C. Payment shall be made upon 100 percent completion and AML's final inspection of the project sites.

III. Term.

THIS AGREEMENT SHALL NOT BECOME EFFECTIVE UNTIL APPROVED IN WRITING BY EMNRD AND STAMPED BY THE PURCHASING DIVISION. This Agreement shall terminate on June 30, 1997 unless terminated pursuant to Paragraphs IV, IX, or XXI infra.

IV. Termination.

- A. 1. EMNRD may, by written order, terminate this Agreement or any portion thereof after determining that, for reasons beyond either EMNRD's or the Contractor's control, the Contractor is prevented from proceeding with or completing the work as originally contracted for, and that termination would therefore be in the public interest. Such reasons for termination may include, but need not be limited to, executive orders of the President relating to prosecution of war or national defense, a national emergency which creates a serious shortage of materials, orders from duly constituted authorities relating to energy conservation, and restraining orders or injunctions obtained by third-party citizen action resulting from national or local environmental protection laws or where the issuance of such order or injunction is primarily caused by acts or omissions of persons or agencies other than the Contractor.
- 2. If EMNRD orders termination of this Agreement effective on a certain date, payment will be made for the actual number of units or items of work completed at the contract unit price, or as mutually agreed for items of work partially completed.
- 3. Acceptable materials, obtained by the Contractor for the work but which have not been incorporated therein, may, at the option of EMNRD, be purchased from the Contractor at actual cost, delivered to a prescribed location, or otherwise disposed of as mutually agreed.
- After receipt of notice of termination pursuant to this section IV.A. from EMNRD, the Contractor may submit a claim for additional damages or costs not covered above or elsewhere in the Specifications. Such claim may include such cost items as reasonable idle equipment time, mobilization efforts, bidding and project investigative costs, overhead expenses attributable to the project terminated, legal and accounting charges involved in claim preparation, subcontractor costs not otherwise paid for, actual idle labor costs if work is stopped in advance of termination date, and guaranteed payments for private land usage as part of the original contract. In no event, however, will loss of anticipated profits be considered as part of any settlement.
- 5. The Contractor agrees to make all cost records available to the extent necessary to determine the validity and amount of each item claimed.
- 6. Termination of a contract or portion thereof shall not relieve the Contractor of any contractual responsibilities for the work completed, nor shall it relieve the surety of its obligation for and concerning any just claim arising out of the work performed.

B. 1. If the Contractor:

a. fails to begin the work under the contract within the time specified in the Notice to Proceed, or

- b. fails to perform the work with sufficient workers and equipment or with sufficient materials to assure the prompt completion of said work, or
- c. performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable, or
 - d. discontinues the prosecution of the work, or
- e. fails to resume work which has been discontinued within a reasonable time after notice to do so, or
- f. becomes insolvent or is declared bankrupt or commits any acts of bankruptcy or insolvency, or
- g. allows a final judgment, in a suit filed in connection with this contract, to stand against the Contractor unsatisfied for a period of thirty (30) working days, or
- h. makes an assignment, in connection with this contract, for the benefit of creditors, or
 - i. fails to carry on the work in an acceptable manner,

then EMNRD will give notice in writing to Contractor and the surety of such delay, neglect, or default, and will specify those provisions which have been violated and the corrective measures to be taken.

2. If the Contractor or surety, within a period of ten (10) working days after such notice, does not proceed in accordance therewith, then EMNRD will, upon written notification from EMNRD of the fact of such delay, neglect, or default, and of the Contractor's failure to comply with such notice, have full power and authority without violating this Agreement to take possession of the premises and of all materials thereon and finish the work by whatever method it may deem expedient. In such case the Contractor shall not be entitled to receive any further payment until the work is finished.

V. Status of the Contractor.

The Contractor and its agents and employees are independent Contractors performing construction services for EMNRD and are not employees of the State of New Mexico. The Contractor and its agents and employees shall not accrue leave, retirement, insurance, bonding, use of state vehicles, or any other benefits afforded to employees of the State of New Mexico as a result of this Agreement.

VI. Assignment.

The Contractor shall not assign or transfer any interest in this Agreement or assign any claims for money due or to become due under this Agreement without the prior written approval of EMNRD.

VII. Subcontracting.

The Contractor shall comply fully with the provisions of the New Mexico Subcontractor's Fair Practices Act, Sections 13-4-31 through 13-4-43, NMSA 1978. The Contractor shall not subcontract any portion of the services to be performed under this Agreement or obligate itself in any manner to any third party, with respect to any rights or responsibilities under this Agreement, without the prior written approval of EMNRD.

VIII. Records and Audit.

The Contractor shall maintain detailed time records which indicate the date, time, and nature of services rendered. These records shall be subject to inspection by EMNRD, the Department of Finance and Administration (DFA), the State Auditor, the U.S. Interior Department, and the Comptroller General of the United States for three (3) years after final payment has been made and all matters relating to performance under this Agreement have been settled. The Contractor further agrees to include in all subcontracts hereunder the same right of inspection and audit against all subcontractors. EMNRD shall have the right to audit billings both before and after payment. Payment under this Agreement shall not foreclose the right of EMNRD to recover excessive, illegal, or incorrect payments. The periods of inspection and audit are for records which relate to litigation or settlement of claims arising out of performance of this Agreement for which exception is under consideration by the federal funding agency or any authorized representative and shall continue until all potential litigation, appeals, claims, or exceptions have expired or been resolved.

IX. Appropriations.

The terms of this Agreement are contingent upon sufficient appropriations and authorization being made by the Legislature of New Mexico, the Federal Congress, and the U.S. Interior Department for the performance of this Agreement. If sufficient appropriations and authorization are not made, this Agreement shall terminate upon written notice being given by EMNRD to the Contractor. EMNRD's decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final.

X. Release.

The Contractor, upon final payment of the amount due under this Agreement, releases EMNRD, its officers and employees, and the State of New Mexico from all liabilities, claims, and

obligations whatsoever arising from or under this Agreement. The Contractor agrees not to purport to bind the state of New Mexico to any obligation not assumed herein by the state of New Mexico unless the Contractor has express written authority to do so, and then only within the strict limits of that authority.

XI. Confidentiality.

Any confidential information provided to or developed by the Contractor in the performance of this Agreement shall be kept confidential and shall not be made available to any individual or organization by the Contractor without the prior written approval of EMNRD.

XII. Amendment.

This Agreement shall not be altered, changed, or amended except by instrument in writing executed by the parties hereto.

XIII. Scope of Agreement.

This Agreement incorporates all of the agreements, covenants, and understandings between the parties hereto concerning the subject matter hereof, and all such agreements, covenants, and understandings have been merged into this written Agreement. No prior agreements or understandings, verbal or otherwise, of the parties or their agents shall be valid or enforceable unless embodied in this Agreement.

XIV. Civil and Criminal Liability Notice.

The Procurement Code, Sections 13-1-28 through 13-1-199, NMSA 1978, imposes civil and criminal penalties for its violation. In addition, the New Mexico criminal statutes impose felony penalties for illegal bribes, gratuities, and kickbacks.

XV. Equal Opportunity Compliance.

The Contractor agrees to abide by all Federal and State laws and rules and regulations, and executive orders of the Governor of the State of New Mexico, pertaining to equal employment opportunity. In accordance with all such laws and rules and regulations, and executive orders of the Governor of the State of New Mexico, the Contractor agrees to assure that no person in the United States shall, on the grounds of race, color, national origin, sex, sexual preference, age, or handicap, be excluded from employment with or participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity performed under this Agreement. If the Contractor is found to be not in compliance with these requirements during the life of this Agreement, the Contractor agrees to take appropriate steps to correct those deficiencies.

XVI. Applicable Law.

This Agreement shall be governed by the laws of the State of New Mexico.

XVII. Waiver.

No waiver of any of the terms or conditions of this Agreement shall be valid or binding unless it is in writing and signed by the party having granted the waiver.

XVIII. Notices.

A. Unless EMNRD shall specify otherwise in writing, notices and all other matters concerning the work to be performed hereunder shall be addressed to EMNRD as follows:

Contract Monitor:

Kathleen Garland, Director

Contracting Division:

Mining and Minerals Division

Energy, Minerals, and Natural Resources Department

State of New Mexico 2040 South Pacheco Street

Santa Fe, New Mexico 87505-5472

505/827-5970

B. Unless the Contractor shall specify otherwise in writing, notices and all other matters concerning the work to be performed hereunder shall be addressed to the Contractor as follows:

Robert Lopez P.O. Box 456 Penasco, New Mexico 87533

C. Any and all notices or other communications required or permitted by this Agreement or by law to be served or given to either party hereto by the other party hereto shall be in writing and shall be deemed duly served and given upon actual receipt by or three (3) working days subsequent to certified mailing to the party to whom it is directed.

XIX. Indemnification.

The Contractor shall indemnify and forever hold and save EMNRD, the State of New Mexico, its officers, and employees harmless against any and all suits, causes of action, claims, liabilities, damages, losses, and attorney's fees and all other expenses of any kind from any source which may arise out of this Agreement or any amendment hereto if caused by the tortious act or omission of the Contractor, its officers, employees, servants, or agents. Nothing in this

Agreement shall be construed to waive or limit any defense at law to which EMNRD is entitled.

XX. Duty to Insure.

A. In respect solely to the work occasioned by this Agreement, the Contractor shall obtain and maintain at all times during the term of this Agreement, and any extension thereof, insurance of the kind and in the amounts herein specified. Such insurance shall be provided by insurance companies authorized to do business in New Mexico and shall name the "State of New Mexico, EMNRD, MMD, and its agents and employees thereof" as either additional insured, coinsured, or principal beneficiary.

- 1. General Liability. Bodily injury liability and property damage liability insurance in the following minimum amounts: five hundred thousand dollars (\$500,000.00) for damages to or destruction of property arising out of a single occurrence; one million dollars (\$1,000,000.00) to any person for any number of claims arising out of a single occurrence for all damages other than property damages, and one million fifty thousand dollars (\$1,000,000.00) for all claims arising out of a single occurrence.
- 2. <u>Automobile Liability</u>. Automobile liability insurance covering the ownership, operation, and maintenance of owned, non-owned, and hired vehicles, in the following amounts:

Bodily injury liability --\$700,000.00 each person \$1,000,000.00 each occurrence;

Property damage liability--\$1,000,000.00 each occurrence.

- 3. <u>Workers' Compensation</u>. The Contractor shall comply fully with the provisions of the New Mexico Workers' Compensation Act, Sections 52-1-1 through 52-1-70, NMSA 1978.
- B. The Contractor shall furnish EMNRD with written evidence, in the from of a Certificate of Insurance, in a format acceptable to EMNRD, of the insurance coverage required by paragraph XX.A, including copies of all policies, prior to commencing work under this Agreement (see example on Page 13). The insurance coverage shall not be changed, canceled, or allowed to lapse without giving EMNRD thirty (30) working days prior written notice.

XXI. <u>Disputes</u>.

Any dispute, other than the Contractor's acts set forth in IV B, concerning a question of fact arising under this Agreement, not disposed of by agreement, shall be decided by the Director

of the Mining and Minerals Division, who shall reduce a decision to writing and furnish a signed copy to the Contractor. Such decision shall be final and conclusive unless, within thirty (30) calendar days from the date of notification by certified mail thereof, the Contractor mails or otherwise furnishes to the Division Director, a written appeal, addressed to the Secretary of the Energy, Minerals and Natural Resources Department. The Contractor shall be afforded an opportunity to be heard and to offer evidence. The decision of the Secretary of the Energy, Minerals and Natural Resources Department or the authorized representative thereof, shall be final and conclusive unless fraudulent, or capricious, or arbitrary, or not supported by substantial evidence. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the Agreement and in accordance with the Division Director's decision.

XXII. Attorney's Fees and Costs.

If the Contractor is found by a court of competent jurisdiction to have breached this Agreement, or any amendments hereto, or to have committed any tortious act relating to the scope of this Agreement, the State of New Mexico may recover from the Contractor actual attorney's fees and costs in connection with litigation brought to obtain such judicial determination or in which EMNRD is otherwise obliged to undertake legal action.

XXIII. Suspension of Work.

A Suspension of Work Notice may be issued by the Project Manager if he has any reasonable basis to believe that any action of the Contractor is contrary to the intent of this Agreement or if any health or safety standard is violated after verbal or written notice to cease such activities has gone unheeded. No work performed after documentation of issuance of a Suspension of Work Notice shall be eligible for payment while such notice is in effect. No work shall proceed until such notice is vacated by the MMD Director.

XXIV. <u>Compliance with Minimum Wage Rate Decision</u>.

Since the construction cost is less than \$20,000, this Agreement is outside the scope of the Public Minimum Wage Act, Sections 13-4-11, et seq., NMSA 1978.

XXV. Required Bond for Public Works Contractor.

Due to the remoteness and small size of this project the bonding requirements will be waived.

XXVI. Preference for Use of New Mexico Materials.

This Agreement is within the scope of Section 13-4-5, NMSA 1978. A preference shall be given by the Contractor and any subcontractor to materials produced, grown, processed, or manufactured in New Mexico by residents of New Mexico.

Liquidated Damages.

It is mutually agreed by the parties hereto that time for the performance of the Agreement is of the essence. Should the Contractor fail to perform the entire project within the specified time, the Contractor agrees to the charge of Three Hundred Dollars (\$300.00) per calendar day of liquidated damages representing inconvenience and monetary damage to the general public. Damages shall commence on the calendar day following the last day for performance of work under the Agreement. The Contractor stipulates that EMNRD may withhold additional payments under the Agreement or attach the performance bond to cover the liquidated damages set forth above. Liquidated damages shall continue until notice of satisfactory completion is forwarded by the Project Manager to the Project Engineer.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written below.

FOR:

FOR:

STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT

ROBERT LOPEZ

(Authorized Representative/Title)

Date: 1 - 11 - 97

By: Rote Torky owne.
(Authorized Representative/Title)

The records of the Taxation and RevenueDepartment reflect that the Contractor is registered with the Taxation and Revenue Department of the State of New Mexico to pay gross receipts and compensating taxes.

FOR:

STATE OF NEW MEXICO TAXATION AND REVENUE DEPARTMENT

NM I.D. NO.: <u>02-307229-00-6</u>

By: funul funuf
(Authorized Representative/Title)

Date: 1/7/97

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	State of New Mex Energy, Minerals Resources Attn: 2040 So. Pacheco Santa Fe NM 8750	& Natural R.J. Garcia St	SHOULD AN EXPIRATION 10 DAY BUT FAILUR OF ANY KIND	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF. THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVE AUTHORIZED REPRESENTATIVE E & B Brokerage Services, Inc.					

00650 - Certificate of Insurance

The following sections describe additional articles under this contract.

00824 - Statutory Requirements

New Mexico Energy, Minerals and Natural Resources Department CERTIFICATION REGARDING DRUG-FREE WORKPLACE

This certification is required by the Drug-Free Workplace Act of 1988 (Pub. L. 100-6900, Title V, Subtitle D) and is implemented through additions to the Department and Suspension regulations, published in the <u>Federal Register</u> on January 31, 1989

Robert Lopez (Contractor) certifies to the Energy, Minerals and Natural Resources Department (EMNRD) that it will provide a drug-free workplace by:

- A. Publishing a statement notifying employees that the unlawful manufacture,
 Distribution, dispensing, possession, or use of a controlled substance is prohibited in the
 Contractor's workplace and specifying the actions that will be taken against employees
 for violation of such prohibition;
- B. Establishing a drug-free awareness program to inform employees about:
 - 1. the dangers of drug abuse in the workplace;
 - 2. the Contractor's policy of maintaining a drug-free workplace;
 - 3. any available drug counseling, rehabilitation, and employee assistance programs;
 - 4. the penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- C. Making it a requirement that each employee to be engaged in the performance of the contract be given a copy of the statement required by paragraph A.;
- D. Notifying the employee in the statement required by paragraph A. That, as a condition of employment under the contract, the employees will:
 - 1. abide by the terms of the statement; and
 - 2. notify the employer of any criminal drug statute conviction for a violation occurring in the workplace not later than five (5) days after such conviction;

- E. Notifying EMNRD within ten (10) days after receiving notice under subparagraph D-2. from an employee or otherwise receiving actual notice of such conviction;
- F. Taking one of the following actions, within thirty (30) days of receiving notice under subparagraph D-2., with respect to any employees who is so convicted:
 - 1. taking appropriate personnel action against such an employee, up to and including termination; or
 - 2. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- G. Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs A., B., C., D., E., and F.

Place of Performance: The applicant shall insert in the space provided below the site(s) for the performance of work done in connection with the specific contract (street address, city, county, state, zip code)

Flat Top Mine Safeguard Maintenance Project - EMNRD-MMD- 97-521.06-071 Cibola County
San Mateo, New Mexico 87050

An <u>applicant who is and individual certifies</u> that, as a condition of the contract, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conduction any activity with the contract.

This assurance is given in connection with any and all payments from the Energy, Minerals and Natural Resources Department after the date this form is sig' ne. This includes paymentsafter such date for contracts approved before such date. The Contractor recognizes and agrees that any such contract will be extended in reliance on the representations and agreements made in this assurance, and the United States shall have the right to seek judicial enforcement of this assurance.

This assurance is binding on the Contractor, its successors, transferrees, and assignees, and on the authorized official (or individual Contractor, as appropriate) whose signature appears below.

ROBERT LOPEZ	97-521.06-071
Organization Name	Contract Number
Robert Lopez Owner	
Name and Title of Authorized Representative	
Robert top	1-21-97
Signature	Date
•	

APPLICATION FOR PAYMENT

FLAT TOP MAINTENANCE PROJECT San Mateo, New Mexico

EMNRD-MMD- 97-521.06-071

Contr	act No. 96-6	Contractor	Billing No	Billir	ng Date	Ten	minate			
Billing represents work completed through (date) ITEM NO. MATERIAL OR WORK DESCRIPTION REMAINING		ESTIMATED QUANTITY	CONTRACT	UNITS THIS AMOUNT	AMOUNTS THIS BILLING	UNITS PREVIOUS BILLING	AMOUNTS PREVIOUS BILLINGS	UNITS Billings	AMOUNTS REMAINING	
1.	Mobilization & De Inot to exceed 10		For the lump sum of	\$250.00_						
2.	Mine Backfilling 4	00 cu. Yds.	For the lump sum of Subtotal	\$_2,500.00 \$_2,750.00						
3.	GROSS RECEIPTS	STAX = LOCAL RATE (5.75	% through 12-31-96) x Subtotal	\$ <u>158.12</u>						
	TOTAL CONTRACT		\$_2,908.12							
CERTIFICATION I do hereby certify that the work described herein has been performed and that no previous payment for the Total Amount Due this Statement, as shown above, has been received.										
Ву:				Ву:				Ву:		
Mining and Minerals Division Director				Contractor				AML Proje	ct Manager	
Date:				Date:				Date:		

Access ID No. 17960

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State of New Mexico ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT Santa Fe, New Mexico 87505-5472

BRUCE KINGGOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

June 7, 1993

MEMORANDUM

TO:

Robert M. Evetts, Program Manager, AML

FROM:

John A. Kretzmann, Project Engineer, AMD

SUBJECT: EMNRD-MMD-92-5 Grants Uranium Phase II Mine Safeguard Project - FINAL REPORT

The following is a final report for the Grants Uranium Phase II Mine Safeguard Project Number EMNRD-MMD-92-5, Ambrosia Lake, New Mexico (see Figures 1 and 2). This project consisted of the safeguarding of eleven abandoned uranium mine openings, demolition of three steel headframes and one timber loadout and closure of 967 boreholes, ranging from 4-inches to 18-inches in diameter (see Figures 3 through 14). Some boreholes, although originally drilled at these diameters, had partially collapsed, sometimes forming a bell-shaped void below the ground surface large enough for a person to fall into. Construction began on March 15, 1993.

The Barbara J mine shafts were closed using the Type 1 closure shown in Figure 11. Tested imported inert riprap and sand/gravel, bentonite chips and soil from the soil stockpile at the Piedra Triste mine closed in 1991 during the Grants Phase I project were used to close these shafts. All soil material for backfilling of the Barbara J shafts came from this soil stockpile. Chemical and radiological test results on the imported inert riprap (from the McCurdy pit) and crusher fines used for the sand/gravel layer supporting the bentonite layer are in the project files and indicate materials with tested parameters significantly below the threshold parameters specified. The Barbara J #2 shaft collapsed during placement of riprap and the bentonite plug could not be placed at specified. Instead an effort was made to break through any bridging by placement of more rock, and the final 87 feet filled with soil material. Bentonite plugs a minimum of two feet thick were placed at 56 feet below ground at the Barbara J#1 shaft, 174 feet down at the Barbara J #3 shaft and 48 feet down at the Barbara J #3-A ventilation shaft.

The steel headframes at the Barbara J #1 and #2 shafts were brought down and dismantled. By the end of the project the steel scrap had been completely hauled off by the local rancher and others. The rancher promised AML that he would use steel scrap only for outdoor construction.

The decline adits at the Flea and Beacon Hill Gossett mines were backfilled as specified. With AML approval, the contractor, Khani Co. of Albuquerque, substituted 30-mil PVC liners for the compacted impervious fill zones as shown in revised Figure 13. Similarly, with the substitution of 30-mil PVC liners for compacted impervious fill, the shafts at the East Malpais Lease and Beacon Hill #18-23 mines and the ventilation shafts at the Beacon Hill Gossett mines were closed using the Type 2 closure details shown in revised Figure 12. See the attached letter describing and showing the liner installation details.

Nowhere was it necessary for the contractor to borrow soil materials from an on-site pit and backfill it with mine waste material as shown in Figure 15. Survey caps were grouted in adjacent competent rock or concrete foundations or inside 3-inch diameter pipes as specified at backfilled shafts, ventilation shafts, and adits.

Specified and additional radiation protection procedures were followed to protect workmen and personnel during construction. Additional measures included the wearing of plastic booties and jump suits while working. The radiation exposure results from the TLD badges worn on site are in the project files and indicate a maximum exposure during the project of 26 mrem.

Numerous boreholes (627 on Mesa Montañosa and 340 in Poison Canyon) were closed around the backfilled mine features. Most of the boreholes, except the most shallow, on Mesa Montañosa were closed by placement of permanent cement bridges as shown in Figure 14. In Poison Canyon boreholes over 150 feet deep were closed with permanent cement bridges and bentonite plugs as shown in the same figure. Shallower boreholes in the canyon were completely filled with granular on-site soil material as specified. A summary of the borehole closures is in our permanent files.

During construction, two shafts were discovered that had opened to the surface in the area impacted by the previous phase of this project. These shafts are located southeast of the soil stockpile established in 1991 at the closed Piedra Triste Mine during construction of the Grants Uranium Phase I mine safeguard project. Both shafts were extremely dangerous to the public at large. One shaft measured about 10 feet by 12 feet by 78 feet deep and the other 23 feet by 27 feet by 17 feet deep (with a dead calf found at the bottom). These shafts were closed under a small construction project using maintenance funds.

All disturbed areas, including mounds at shafts and adits and temporary construction haul roads were seeded, fertilized and mulched as specified in the last week of April 1993. All work was completed by May 3, 1993.

JAK:jak

Attachments

original: Post Construction (j) w/ attachments

xc: Raymond Rodarte, Project Manager, w/ copy of attachments Homer Milford, Environmental Coordinator

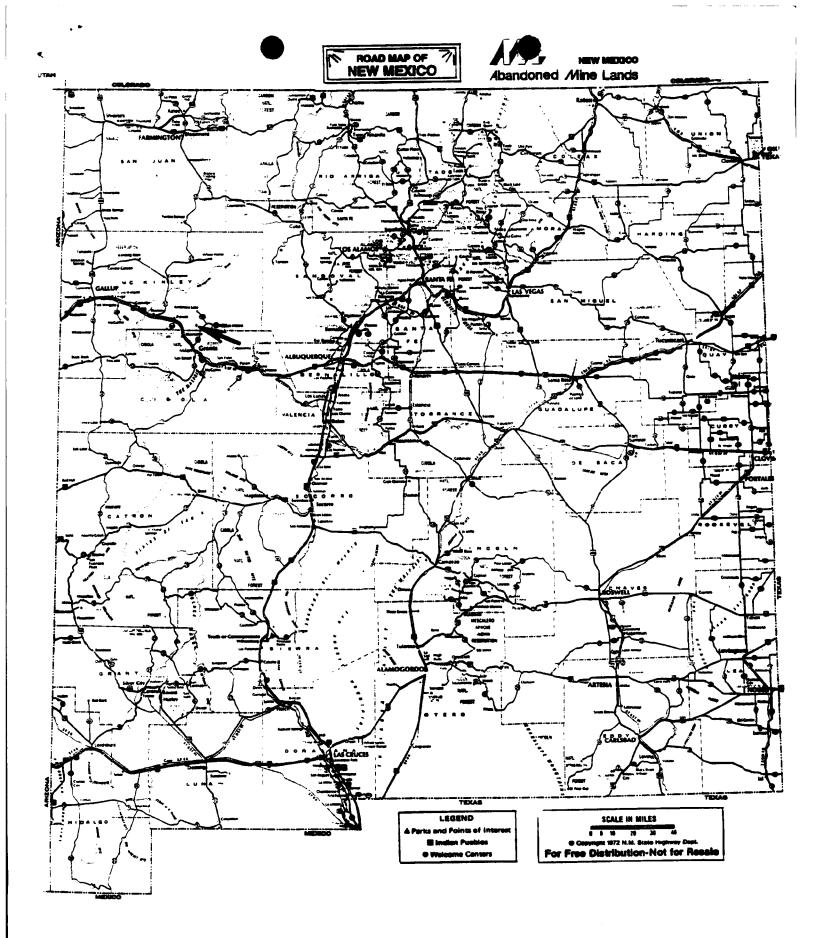
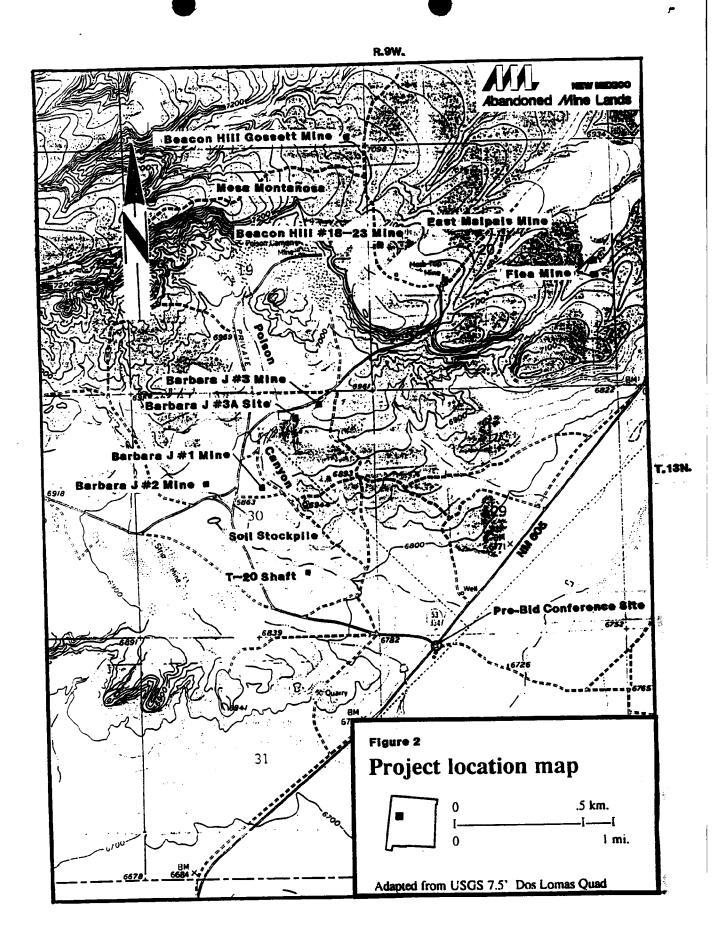


FIGURE 1.



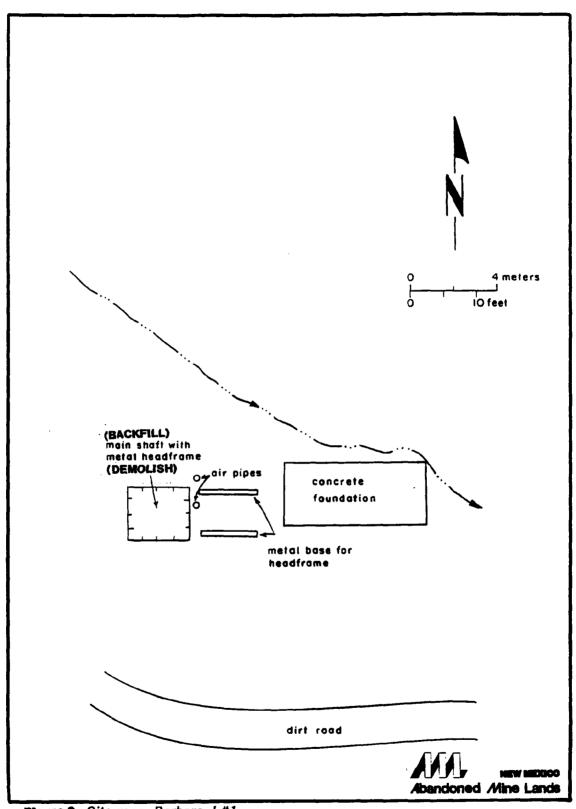


Figure 3. Site map, Barbara J #1.

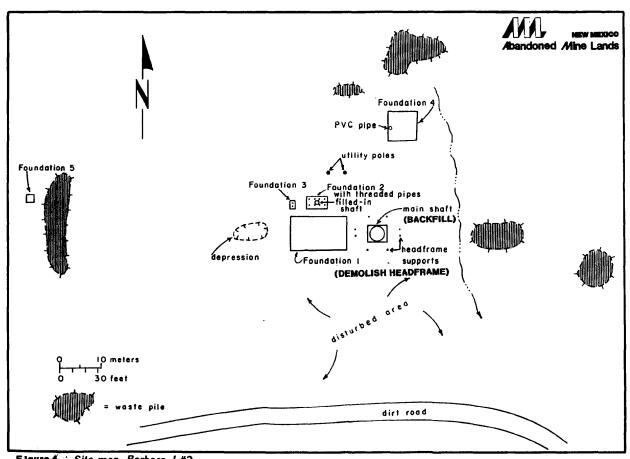


Figure 4. 5 Site map, Barbara J #2.

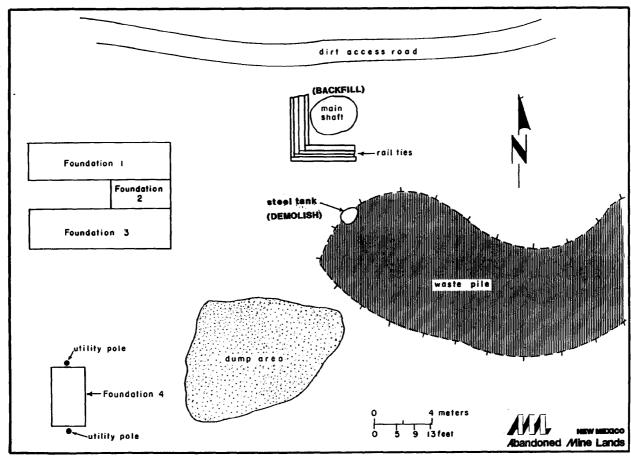


Figure 5. Site Map, Barbara J #3.

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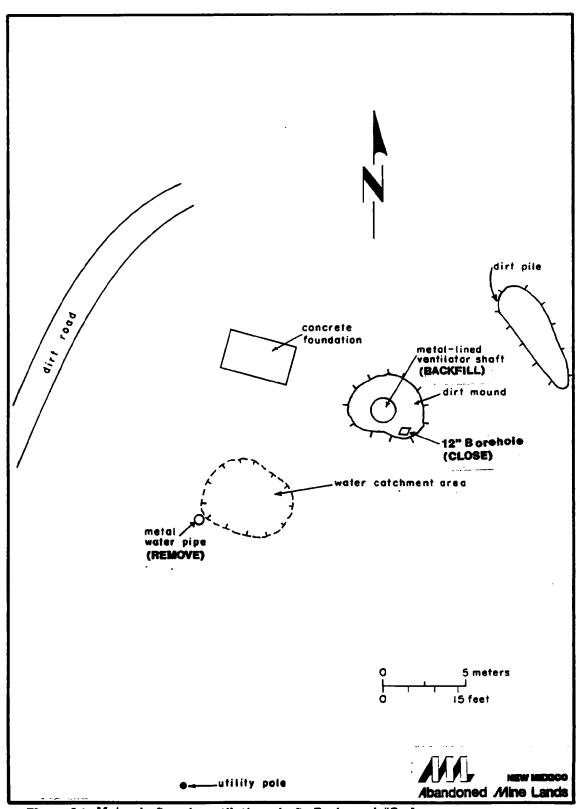
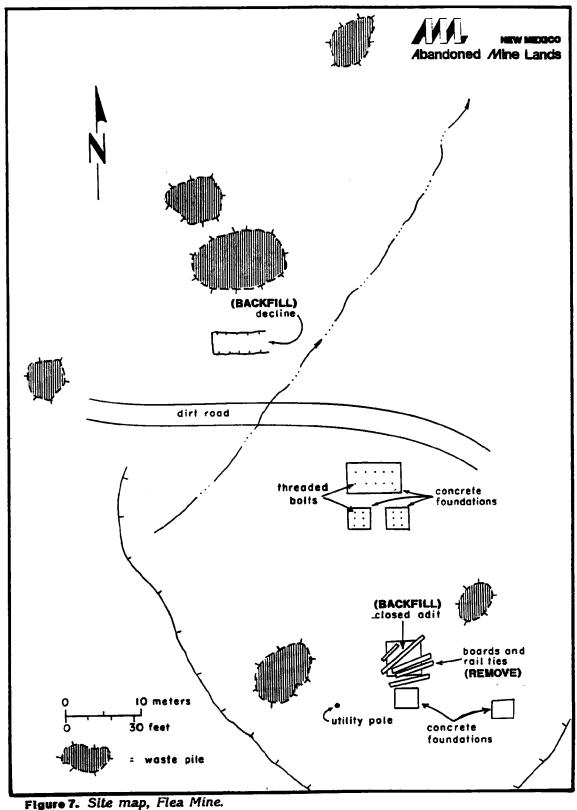


Figure 6.4. Main shaft and ventilation shaft, Barbara J #3-A



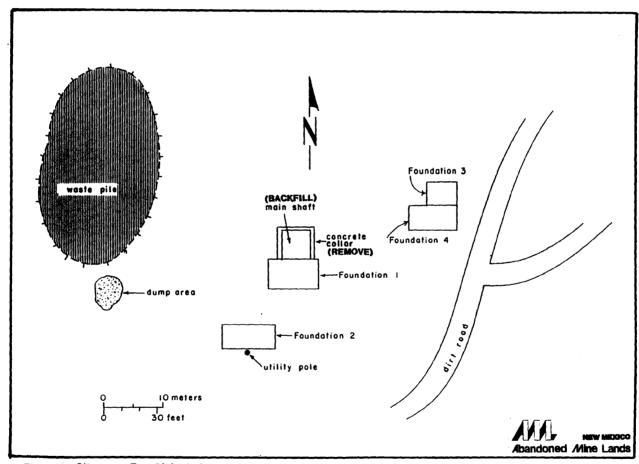


Figure & Site map, East Malpais Lease.

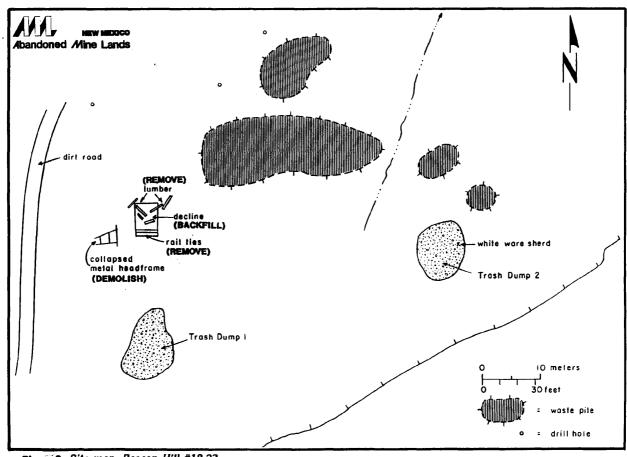


Figure 9. Site map, Beacon Hill #18-23.

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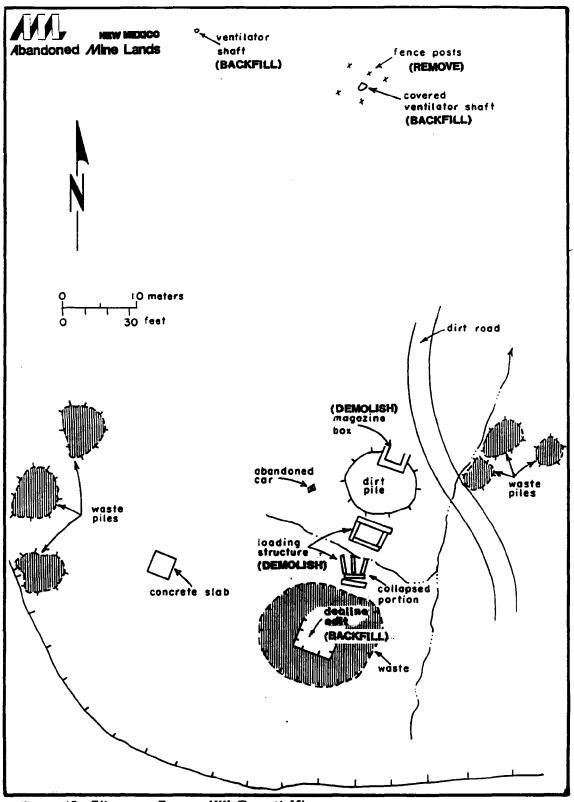
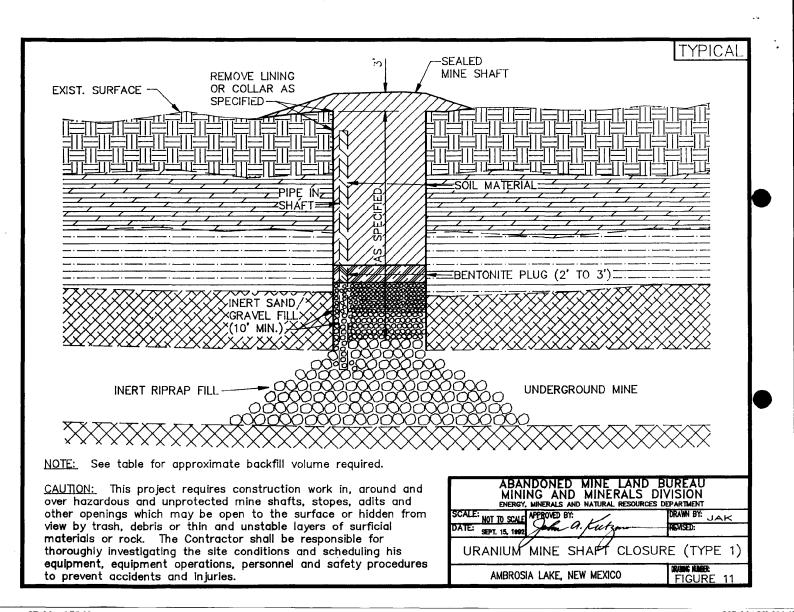


Figure 10. Site map, Beacon Hill Gossett Mine.



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